

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 1, 1950

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the May 15 issue will close Monday, May 1. Mail copy to arrive at Chicago by that date—no later!

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A. A. N. CONVENTION NUMBER

of the

AMERICAN NURSERYMAN

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OUT JULY 15

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Only one value of the Special Convention Number is that it is a veritable buyer's guide for nurserymen. While each issue of the American Nurseryman contains regular and seasonal offerings, because of the numerous and diverse advertisements of stock, supplies and equipment in the July 15 Special Number, this issue is regarded as a buying guide for the nursery industry.

Each year's Special Convention Number has surpassed that of the previous year in size and volume of advertising. The July 15, 1950, issue promises to surpass even last year's record-breaking issue. Already 13 pages of full-color advertisements are booked, and advance orders for black and white advertisements are heavy.

Special editorial features—on the convention, the nursery industry, nursery operations and plants, with a beautiful cover picture of plants in full color—will further make the Special Convention Number outstanding.

Over 7,700 nurserymen will prize this issue and refer to it often for items needed to operate their businesses. Your advertisement will tell the industry what you have to offer. Plan now for conspicuous space in the outstanding issue of the year. Reserve space now and send copy early.

AMERICAN NURSERYMAN

343 SOUTH DEARBORN ST., CHICAGO 4, ILL.

AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*
Joan L. Kilner, *Assistant Editor*

Editorial

ADVICE TO CUSTOMERS.

Every business establishment is called upon by its customers for information which is pertinent to the field, but frequently not directly concerned with the service or merchandise it sells. This is particularly true of those firms which deal directly with the public. While sometimes these queries may become irksome in number or extent, especially when they must be answered by the man who is running the business, some types of businesses capitalize on these inquiries as a means of cementing their customer relations.

Every nurseryman encounters any number of queries in regard to his plants and their use. Landscape contractors and garden designers face a still further variety of questions. How far afield they may be taken in answering the questions of the homeowner is apparent from the article in this issue, "Doing More for the Customer."

Not only does it favor the generous giving of advice to the new or prospective homeowner. The article goes further and presents a good many bits of advice that are of special value in these circumstances. Each nurseryman or landscape contractor has acquired much information of this type. But the number of those in the audience who were taking notes when the author spoke on this subject at a nurserymen's meeting indicated that many acquired new suggestions from his talk. Not only for the profit of its theme, but also for the number of concrete suggestions it contains, this article is specially recommended.

WATCH THE ACCOUNTS.

Of the many persons who start in business with adequate capital and earnest intentions, a considerable number fall by the wayside because they lack the capacity to meet the problems of business management. The reports of credit organizations indicate that this lack is the stumbling block of an overwhelming proportion of those individuals who fail in business.

Retail business is entering a period that tests new management severely. Sales come less easy than they did a year or two ago, and customers are

slower to pay. The danger is that volume of sales may fall while accounts receivable rise. Consequently, cash shrinks. That is the story of those firms taken in charge by creditors' committees. The owners and managers are well intentioned and of good character, and they have sunk considerable capital into the business, though it is of little operating value while it is tied up in accounts receivable. Collections take time, and meanwhile there are payrolls to meet, rent to pay and other operating expenses as well.

To stay in business, you need a profit. That means cash profit. Large sales volume is a worthy goal, but it is not the primary one, because large sales volume is a liability unless accompanied by profits. Large sales may be reflected by large accounts receivable and little money in the bank, which spells disaster.

If you want to stay in business, don't sell merchandise unless you are reasonably certain that you will collect within your terms or within the period that you need your working capital. Better turn down the sale from a slow-pay customer and remain solvent than sell him and get behind with your own bills.

This formula for business longevity is so simple that it sound trite. But it is neglect of this simple formula that brings more young business enterprises to hardship and failure than any other. If sales volume is declining, be doubly sure that accounts receivable are not mounting.

WAGE-HOUR EXEMPTIONS. DEFINED FOR NURSERIES.

Employees of nurseries are exempt from the wage-hour law of the revised federal fair labor standards act, provided their work is within the meaning of agriculture, according to a report in the April bulletin of the Connecticut Nurserymen's Association.

The recently revised law prescribing overtime at time and one-half over forty hours' work per week for persons engaged in "covered" employment exempts agricultural workers. Nurserymen and landscape men are classed as agriculturists, according to the wage-hour director at Boston, Mass., provided they stay within the definition of agriculture and do not do maintenance work or sell accessories.

Of course, in interpreting the law,

the determining factor is what an employee does, for the law applies to the employee, not the owner or company. There would therefore be cases in which some employees of a firm would be affected by the law and others would not.

In the case of a nursery which sells garden tools and the like, in addition to its regular business of selling plants, the law would probably affect it only in respect to the employees involved in the actual sales activities. If such a firm could segregate the duties of its employees into either the agriculture or mercantile class, only the employees engaged in selling would come under the overtime provision.

For landscape men, the construction of stone walls and similar work which is an incidental part of a landscape project are evidently included under the definition of agriculture, and so men employed in such activity would not come under the overtime provision. However, employees doing maintenance work are affected by the law.

ORGANIC GARDENING.

The importance of organic matter in the soil and the value of a compost pile are so well known to nurserymen that they wonder over the excitement with which some writers treat the subjects. In their basic beliefs as to the value of organic matter in the production of commercial or garden crops there is easy agreement. But in their assertions, made perhaps by way of emphasis to spread their propaganda, the enthusiasts attribute to organic gardening much that is beyond scientific determination. These enthusiasts in some cases take on the order of a cult and spread their philosophy after the fashion of the mystic alchemists of the Middle Ages. Now that their writings have spread from the periodicals that circulate within their own group to newspapers and magazines read by the uninformed gardening public, the disservice of their assertions becomes more widely apparent.

When the proponents of organic gardening declare that the use of chemical fertilizers not only has ruined the soil, but also the health of mankind, they do so in the face of vital statistics that indicate man's life span has been increased a respectable number of years in the past

[Concluded on page 50.]

Doing More for the Customer

By Harold J. Parnham

Those of us who are in the landscape contracting business have discovered that there are many helpful suggestions which can be given a customer or prospective customer, aside from advice on trees and shrubs. In so doing, we make a friend of that customer, which means more business for the nurseryman.

There is practically no one interested in helping homeowners, especially the new young ones, on anything outside the four walls of their house. The present method of building gives the new owner the bare necessities in the house, with a 7-foot strip of drive carried to the back line of the house; from there on the owner is on his own. The young folks say they do not know to whom to go for the million and one little things about their property use. So why not the landscape nurseryman, who is essentially a land planner?

You will make a real friend if the customer or prospect comes to believe that you are the one who knows all the answers on planning the entire use of his land. If you are fortunate enough to advise the customer before he builds, you can be of great assistance in locating the house and other buildings for maximum efficiency in the use of the property. You can also suggest some things about the house, although we fully realize that in doing this you may have to watch your step with the builder and architect, but you can try, and sometimes you can even get their cooperation.

So, in general, you can help in the design, land use, points for the owner to watch for during construction and little things about the property. Help these customers to understand the laws; know your local building code so as to guide them and then, last but not least, instruct them in aftercare of your products. If you can do these things or even a small part of them, you are proving to the customer or prospect that you are a land planner, and he will call on you for many things. If he accepts only one tip, that may be enough to cinch a job or to make a lifelong friend and customer.

The problem of locating the house we shall not go into, for that is a subject in itself, but the owner usually does want help in locating the drive and walks. Suggest that he make them adequate and put them in the right place, with plenty of room to

get in and out of the garage and to turn around should he have a turn-around. See that the drive is on the service side of the house.

Make it emphatic to the homeowner that he should remember, in these early stages of building, not to lose sight of the fact that the view from the house is much more important than the view to the house and that, therefore, in most cases the picture window belongs in the back wall of the house instead of in the front. This window makes the outdoors actually flow into the living room, and an attractive view is much

so it is important to know where they are.

At your first contact with the customer, either by mail or in person, impress upon him the fact that if he has not planned the entire yard early, he has made his first mistake. Many times the home design and the yard afford the opportunity for a beautiful outdoor living room which can be and is enjoyed from the inside of the house, but is there a way, and a quick way, of getting from the indoor living room to that outdoor living room? Many builders and architects forget about this, and one has to go either through the kitchen and back hallway or out the front door and around the house, losing in the meantime that connected feeling between the outdoor and indoor living areas. Suggest a convenient door or French door from either the living room or dining room directly to the garden.

If you do not do grading work—and most of us do not—be able to suggest to the owner the proper way to grade the lawn. Have the names of at least two good graders who will work with you and also do a good job for the customer.

Suggest to the customer that he allot an extra \$5 or \$10 to the grader or contractor so that he can pick up every particle of debris from the ground before he starts the grading operation, so that such debris will not be maneuvered into low spots and covered up later on to affect planting areas and lawn areas. Suggest to the owner that he have the contractor make the backfill around the foundation of the house before the building operations extend above the first floor. This eliminates a common and bad practice by all the workmen of using this trench to dispose of waste material, paint cans, worn-out clothing and extra mortar that they have left at the end of the day. Let him know that most likely the most expensive plants he will buy will be set in that area, where such junk will do it no good.

While the grader is on the job with heavy equipment, suggest to the customer that the grader, while he can do it so quickly and easily, gouge out the proposed planting areas with his bulldozer and fill the area with the good topsoil which by this time he has saved as a result of another suggestion that you made to him earlier.

During construction of the house



Harold J. Parnham.

more pleasant flowing into the living room than is the sight of street traffic, which is usually all that the front has to offer.

During this stage of building comes one of your first chances to suggest something to the owner that will prove you are not making suggestions in a selfish way. Suggest to him that while the ditches are open and they can be easily measured is the best time for him to make a map of all underground utilities—water, sewer and gas pipes, electric conduits and septic tank system, if used, and their depths. If he files this with his abstract of title, someday it may save his digging up his whole property in trying to locate the pipes, or it may save him or you the expense of repairing severed conduits, which could either include the telephone service or electric light service either to the house or to some garden feature. The location of these services might interfere with the planting of a large tree;

you can drop the hint that all porches and even a pair of steps should have deep footings below frost line and should not be set on a new soft fill of soil around the house, because of the fact that the steps will settle and pull away almost before the house is occupied.

Another hint you can give is, while the foundation is being built is the cheapest time to put an agricultural drain tile system around the footings, properly connected with a drain some place, and to do a thorough waterproofing job if the house has a basement. There are, also, good ways and poor ways of connecting downspouts from the house with a tiling system. One of the good ways is so that the downspouts will never stop up with leaves or debris; show the owner or the contractor how this is done.

If there are any existing trees on the property, before any building operations are started be sure to have some broad boards wired around the trees, so that the too-often careless bulldozer or tractor operator will not injure the tree.

Know the proper lawn seeding period for your neighborhood, and give the owner advice on seeding versus sodding. Tell him exactly how the ground should be prepared so that the lawn will be good for years to come and not be a temporary investment. If you do not do those jobs, again, have a good seeder or sodder on your list whom you can recommend to the customer.

The same applies to building rock walls or fireplaces or doing tree surgery. Know how they should be done. Instruct the customer in case

[Continued on page 43.]

Pointers on Propagation

By James S. Wells

AERIAL LAYERING.

You may have read references to the aerial layering of rhododendrons and hardy Ghent azaleas. At the Maryland nurserymen's short course in February, I understand, John Creech, from the United States Department of Agriculture station at Glenn Dale, gave a most interesting talk on the subject. I first ran into the method last summer at the Arnold Arboretum, where data had been obtained from Mr. Creech. Quite naturally, I contacted him at once, and as a result we ran a test last year on aerial layering of rhododendrons. This proved moderately successful, but we believe that we can do much better this year if we tackle the problem at this time.

The method requires that a stem of a rhododendron be sliced to remove a thin piece, that the resulting wound shall be treated with a hormone powder, that the wound after treatment be wrapped in damp sphagnum moss and that this in turn shall be covered with Du Pont polythene. This polythene is impervious to water, and the moisture therefore is retained in the sphagnum moss. Under the moist conditions of the sphagnum moss, the stem of the rhododendron sends out roots, and, once well rooted into the moss, the stem can be severed, and you have a rooted plant.

The advantages of this method are

fairly obvious. It enables one to produce own-root plants in many of the more difficult species. It produces a quite large plant fairly rapidly, for once the stem has produced roots you have an established plant with three or four and possibly five branches above the point of rooting. Of course, it requires a certain amount of patience, but if you count up the sum total effort which you put into the growing of an understock and the grafting of the hybrid onto it to obtain the same results, you will be bound to agree that propagation by the aerial layer method is less work.

Last year we made our marcots, as we call them, late in July. I believe that, as we are working on 2-year-old wood, if we make the marcots earlier in the season—that is, at about this time of the year—the new roots will be produced later in the summer, and one can then remove the plants from the parent stem and establish them in pots or in frames for overwintering. If you are interested in the propagation of hardy hybrid rhododendrons and the Ghent azaleas, you might wish to run a small trial on this method at this time.

A THIRD son was recently born to the Robert Hoffmans, of Hoffman's Nursery, Wabash, Ind. Mr. Hoffman is vice-president of the Indiana Association of Nurserymen.



Aerial layering in rhododendron propagation. The illustration on the left shows the initial wound on the stem. Note that the stem is white with the hormone powder which has been dusted onto the stem and wound. The center illustration shows the ball of moss completely covered with polythene. It is tied top and bottom with budding strips. The illustration on the right shows the same stem four months later. Note the young roots thrusting out from the moss ball. This layer is now ready to be removed from the parent plant and potted.

Holly Society Sees National Arboretum

By Harry W. Dengler, Vice-president

Seventy-five members and guests from seven states and the District of Columbia attended the annual spring meeting of the Holly Society of America, Inc., at the University of Maryland, College Park, March 30 and 31. The society's president, C. R. Wolf, who is president of the New Jersey Silica Sand Co., Millville, N. J., presided at all sessions of the 2-day meeting.

National Arboretum History.

On the first afternoon, the group met at the temporary office of the National Arboretum, Washington, D. C. Harry Gunning, assistant director, welcomed the members and congratulated the society on being the first organization formally to visit the arboretum and to sign the guest register. The arboretum is not often open to the general public at the present time because there is considerable construction under way.

Mr. Gunning explained that the National Arboretum was established by a congressional act in 1927 which authorized the Secretary of Agriculture to establish and maintain a National Arboretum for purposes of research and education concerning tree and plant life. The act authorized the appointment of an advisory council to be responsible for the planning and development of the arboretum. Fifteen members, representing national organizations, including commercial nurserymen, garden clubs, educational institutions and others interested in the aims of the arboretum, make up this council.

When completed the arboretum

will occupy an area of about 410 acres located in the northeastern section of the District of Columbia. The soils are typical of this section of the country, but, because of the diversified nature of the terrain, the land offers a great variety of sites and exposures for specific plant requirements. The arboretum includes historic Mount Hamilton along its western border. Its eastern portion overlooks the broad expanses of the Anacostia parkway.

The latest plans were drawn up in 1949. A loop roadway will follow the general outside boundaries of the property. A small section will be devoted to greenhouses, nurseries and service areas. An administration building to house scientific research laboratories and collections of herbarium materials is planned, along with an auditorium to accommodate 200 persons.

Plantings at Arboretum.

Of the permanent plantings that have been established, only the large azalea collection approaches the state of effective display. Mr. Gunning mentioned that this planting consists of some 70,000 plants, which are just entering their fifth growing season. These are largely the evergreen Glenn Dale hybrids, which have flowers from three to five inches across and bloom over a period of six weeks. So that the public may enjoy the colorful splendor of this azalea display, the arboretum is temporarily open to the public on Saturdays and Sundays only until May 15.

Mr. Gunning stated that the plant-

ings of magnolias, hollies and crab apples now give only a suggestion of what the effects will be in future years. While many of the conifers do not thoroughly enjoy the District of Columbia's climate, a creditable collection has been started. Major emphasis has been placed upon junipers, true cedars, pines, hemlocks, yews and their close relatives. Groves of white pines, hemlocks and spruces and individual specimens of lacebark pines, Himalaya pines and other conifers are beginning to show their true characteristics and the promise of mature beauty.

The arboretum has a large herbarium which is now temporarily housed at the United States Department of Agriculture plant industry station, Beltsville, Md. Students can arrange to work in the herbarium by appointment.

Mr. Gunning illustrated his talk with several sets of maps and drawings showing the general layout of the arboretum and the appearance of the planned buildings.

B. Y. Morrison Introduced.

The members received an unexpected treat in being presented to B. Y. Morrison, acting director of the arboretum. Mr. Morrison, who has worked in the office of plant introduction and exploration, United States Department of Agriculture, for the past fifteen years, credited progress of the arboretum to all members of his staff. He stated that, in general, the arboretum is to have three main entrances. One will be for the public "in their Sunday clothes"; another



Ceremonies marking presentation of memorial holly trees to the citizens of Auckland, New Zealand, by Holly Society of America, Inc. Holding trees are: Left to right, Society President, C. R. Wolf, Millville, N. J.; Air Commodore James L. Findlay, air attache, New Zealand embassy, Washington, D. C., and Col. John C. Pitchford, dean, college of military science and tactics, University of Maryland. The society's vice-president, Harry W. Dengler, College Park, Md., stands next to Colonel Pitchford.

for the workmen "in their shirt sleeves," and the third for the scientists "in their laboratory smocks and field clothes," so that each group may enter and leave without being seen or bothered by the others.

There are two schools of thought on the development of an arboretum, Mr. Morrison stated. One is to include every living woody plant that can exist in the area and group them taxonomically. The other is to place the major emphasis on plants which are locally beautiful and useful. But the general plan for the National Arboretum is to feature broad, seasonal, mural paintings of locally adapted plants to provide an attractive appearance for the vast crowds expected to visit it. In isolated areas, however, the visiting nurseryman, student or taxonomist will be able to locate most plant specimens he wishes to examine.

The group visited the greenhouses, transplanting beds, the azalea planting and various evergreen plantings in a tour conducted by O. O. Freeman, curator. Of special interest to the members, of course, was the collection of native and exotic hollies.

Mr. Freeman exhibited several 3-foot Dawn cedars from China and dwarf foliose plants of *Ilex cornuta rotunda*. The latter are low and compact and have had no flowers during seven years of observation. An excellent low hedge of *Ilex crenata* was seen.

Throughout the tour the members were impressed with the progress and the wonderful possibilities inherent in the National Arboretum.

Large Hollies Visited.

As the guest of William H. Mister, chief gardener, members visited the grounds of St. Elizabeth's hospital, Washington, D. C., where are planted some of the largest specimens of native holly in the United States. Scattered and clumped males and females up to forty feet in height were observed. Several good-size English hollies were inspected, and a 25-foot, heavily berried specimen of *Ilex cornuta burfordi* presented an unusual attraction. Of special interest to the group was the Toner holly. This large-leaved American holly of good color and fruiting habits is an early selection of Prof. F. L. O'Rourke, of the horticulture department, Michigan State College.

Informal Evening Meeting.

President Wolf opened the evening meeting by introducing Dr. William Kemp, director of the Maryland agricultural experiment station,

[Continued on page 51.]

AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE,
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON 5, D. C.

"FORGING FRONTIERS" IS A. A. N. CONVENTION THEME.

Confident that the outlook for the nursery industry is bright and encouraging in the long run, as well as in the near future, the local committee in charge of the convention of the American Association of Nurserymen to be held at Washington, D. C., July 17 to 21, has adopted the slogan "Forging Frontiers," to typify the forward-looking theme of the diamond anniversary meeting.

To explain further the association's idea that the frontiers of tomorrow are forged today, the following paragraphs are reprinted from the folder of general information for the convention issued by the A. A. N.

"What we build today, we enjoy tomorrow. Ever since colonial days, the nursery industry has been building for the future. It has refurnished our land with trees, made our countryside fruitful, ornamented our homes and communities, covered our barren areas with vegetation useful to man, essential to the birds and beasts of the wild. The industry attempts to replace nature's mantle which man himself has destroyed.

"Our seventy-fifth anniversary as an association is a monument to the pioneers who established the industry in the New World and to those who pioneered the organization seventy-five years ago. It is a tribute to the sixty-six men who have served as presidents and to that host of others who have contributed to the success of the organization. It is a challenge for us to maintain an active dynamic organization in the years ahead for the benefit of the industry which the association serves."

A. A. N. SPECIAL TRAIN PLANNED FROM CHICAGO.

A special train from Chicago to Washington, D. C., and return to Chicago has been arranged by the Pennsylvania Railroad for the diamond jubilee convention of the American Association of Nurserymen, July 17 to 21.

The train will leave Chicago from Union station, Saturday, July 15, at 3:40 p. m., central standard time, and arrive at Washington, Sunday morning, at 8:35, eastern standard time. On the return trip, the train

will leave Washington, D. C., from the Union station, Thursday, July 20, at 4:30 p. m., E.S.T., and reach Chicago the next morning at 7:30, C.S.T. According to daylight saving time, these schedules would be one hour later. Stopovers are permitted at any point on the Pennsylvania Railroad.

The first-class round trip to Washington, D. C., is \$71.42, including the fifteen per cent federal tax. Tickets should be purchased from one's home town for the round trip. Pullman tickets or other accommodations from and returning to Chicago will be handled through the office of A. C. Striebel, district passenger agent, Pennsylvania Railroad, 16 South La Salle street, Chicago 3, Ill. In addition to Pullman berths, the special train will include roomettes, single duplex rooms, bedrooms for two persons and drawing rooms for two or three persons. Reservations must be made by July 1.

The Pennsylvania Railroad will also be glad to assist in planning post-convention trips, such as to colonial Virginia, Atlantic City or New York.

ADVANCE REGISTRATIONS FOR CONVENTION.

Nurserymen and their families planning to attend the seventy-fifth annual convention of the American Association of Nurserymen at Washington, D. C., July 17 to 21, will benefit considerably in time and expenses by taking advantage of the opportunity for advance registrations. Tried out at the Milwaukee and San Francisco conventions, advance registration proved popular with the members, saving them waiting in line to register on arrival at the convention as well as saving money.

The \$15 registration fee for men includes the keynote luncheon, trip to Mount Vernon, the past presidents' banquet, entertainment in the Jubilee room during the four nights of the convention and transportation to and from the special ceremonies at the National Arboretum, Thursday, July 20.

For the ladies, the registration fee of \$15 includes, in addition, the Sunday afternoon tea, July 16, and the luncheon and fashion show at the Shoreham hotel, Tuesday, July 18.

A \$5 charge for children under 18 years of age is being made to cover the get-acquainted picnic at Rock Creek park, Sunday afternoon, July 16, trip to Mount Vernon, transportation to and from the National Arboretum ceremonies, past presidents' banquet and all entertainment features in the Jubilee room. A number of tours are being planned to points of interest in and around the Capital city as other entertainment for the juniors.

Advance registration blanks are being mailed to A. A. N. members, and receipts will be sent to members registering in advance. The convention badge, badge book, tickets, programs and other convention material will be waiting for the advance registrants to pick up without delay when they present advance registration receipts at convention headquarters. Cancellations cannot be made after July 8.

ENTERTAINMENT FOR A. A. N. LUNCHEONS AND EVENINGS.

Promising an informative, entertaining and valuable program at the diamond jubilee convention of the American Association of Nurserymen, to be held at Washington, D. C., July 17 to 23, the local committee has arranged for two nationally heard radio commentators to present the "News Behind the News" at the Wednesday and Thursday luncheons. One of the Senate's outstanding members will bring a firsthand account of Washington events to the nurserymen, and they will also hear a cabinet member at one of the sessions. More detailed information on the A. A. N. convention program will be reported in subsequent issues.

A Jubilee room at the Hotel Statler has been set aside for social recreation and entertainment to those wearing the convention badge. The various evenings in the Jubilee room have been designated by the entertainment committee as follows: Sunday, meet your neighbor night; Monday, Virginia night, with entertainment sponsored by the Virginia Association of Nurserymen; Tuesday, Maryland Free state night sponsored by the Maryland association, and Wednesday, presidential night. The Jubilee room will also be open on Thursday evening for cocktails and entertainment before the past presidents' banquet.

Edward Stock, Stock Bros., Bethesda, Md., is chairman of the entertainment committee, which is composed of John Donofrio, Carroll Gardens, Westminster, Md.; Clarence Price, Towson Nurseries, Inc., Tow-

son, Md.; Frank Primrose, Loudon Nurseries, Pikesville, Md., and Kenneth McDonald, Le-Mac Nurseries, Hampton, Va.

A. A. N. WASHINGTON TOURS TO ATTRACT ALL AGES.

Because of the abundance of interesting and historical places to visit at and around Washington, D. C., the committee in charge of the American Association of Nurserymen's seventy-fifth convention at the Capital city, July 17 to 21, has arranged for a series of optional tours of varied interest. The teen-aged guests, as well as the ladies and nurserymen who are interested, may make reservations for these tours through the Washington office, using the special tour prospectus and reservation blank sent to A. A. N. members. About 100 junior guests and over 200 wives have already indicated their intention of attending the convention and their interest in the scheduled tours.

Tours for Junior Guests.

Many teen-agers will get their first bird's-eye view of the city when a group will visit the Washington monument Monday morning, July 17, and ascend to the top to see what the capital looks like from a height of 555 feet. This tour will also take in a visit of the crime laboratories and other buildings of the Federal Bureau of Investigation to see the G-men at work. There is an optional tour for that morning to the United State's zoo at Rock Creek park.

A choice of tours faces the young guest for the afternoon of the first day also. One group will be taken to West Potomac park, past many foreign embassies, to the Lincoln memorial. Then a visit to the Thomas Jefferson memorial is followed by a stop at the billion-dollar National Gallery of Art, the beautiful rose-white marble building containing a

world-famous collection of paintings. The other tour for that afternoon also takes in outstanding Washington buildings, including the Smithsonian Institute, the Museum of Natural History and the National Gallery of Art.

The high spot in convention memories of most teen-aged guests will probably be the all-day trip into Maryland during which the group will be escorted under marine guard through the naval gun factory, the largest one manufacturing naval guns and atomic devices. Traveling on to the Maryland state capital, Annapolis, for a tour of the United States Naval Academy, the group will stop for lunch at the Carvel Hall hotel and then visit the Old Statehouse, St. John's College and the governor's mansion.

A chance to see more of Washington is presented in a tour scheduled for Wednesday morning to go through the United States Capitol, the Senate chamber, the House of Representatives, the Pan-American Union, Bureau of Printing and Engraving, Congressional Library and the Supreme Court.

Trips for All.

The entire convention will join the afternoon tour by bus. The groups will first visit the Tomb of the Unknown Soldier at Arlington National cemetery and then pass through historic Alexandria to George Washington's home at Mount Vernon. When the A. A. N. last met at Washington, in 1886, the entire group was photographed on the portico of Mount Vernon. The 1950 official photograph will be taken at the same place. A leisurely return trip by boat, which includes dancing on board, will be made on the Potomac that night.

After a tour of the 400-odd acres of the National Arboretum, a tree-

[Continued on page 35.]



Hotel Statler, A. A. N. Diamond Jubilee Convention Headquarters at Washington, D. C.

What the Retailer Expects

By Richard M. Wyman, Jr.

In discussing what the retail landscape nurseryman expects when he buys nursery stock, everything I say does not apply to every wholesaler. Usually the ones to whom it does apply will not listen, and the ones to whom it does not apply are the ones that will take it to heart.

Most of us in the retail business usually buy in quantities of fifty or 100 of a variety. We expect to get 100 plants that we can put on the counter and sell today and tomorrow. We do not expect to get twenty per cent that we must job off or turn the bad side away or plant out in the nursery.

Many retailers do not have any land or the facilities for planting out; so, if they get some bad material, they are stuck with it, and the only way they can get rid of the stuff is to palm it off on somebody else. Doing that, they may sell their product, but they hurt their reputation.

Another thing that we expect is full size. I know there is a scarcity of nursery stock, and a plant that is twenty-five inches high fits in the 2 to 3-foot grade. But when we buy a quantity of that grade, we do not want them all twenty-five inches.

Another thing that I expect is delivery in full of the order. When I go around in the fall ordering nursery stock, I tell a man I want 200 of a certain item and he accepts the order, but when April 1 comes along and I receive my nursery stock, instead of 200 I get seventy-five plants.

In some cases it may not matter, but we may, in the meantime, already have sold those plants. Then it really hurts when you must go to a customer and say, "Well, I'm sorry. I just can't get them," and he turns around and says, "Why, you already sold them to me! Why can't you get them?"

The customers do not understand. So it is important that, when the wholesaler books an order, he will be sure to have them.

Evergreens should be dug properly and tied so that they will stand some handling. It seems woefully shortsighted to spend five, eight or

ten years growing a plant, going to all the expense, from the time you propagate it, of cultivating, fertilizing and watering, to produce a salable plant that may be worth from \$5 to \$10 wholesale, and then cut its value by poor handling.

After spending all this time to grow a plant that is worth a lot of money, why ruin it by improper digging or improper burlapping to save a few cents?

In retailing, especially in our garden center, it isn't as though a plant is handled just one time and then goes into the ground.

When the plants come to our place in large quantity, they do not all go to the garden center at once. And when they are moved into the sales plot and a customer comes along

and asks to look at a plant, he never wants to look at the one in front. It is always the one in back. So, those plants are handled, back and forth, repeatedly.

Then, the plant either is loaded in the customer's car or it must be delivered. In any event, the plant has to stand a lot of handling. In order to do so, it must be tied or sewed just as tightly as possible.

Some wholesalers say, "You know how help is today. It is not like it used to be." That excuse was all right just after the war, but not today.

Beyond that, if a man's digging crew does not dig and burlap properly, it is the owner's fault, because he is the one who is supposed to see that the plants are sent out properly and that his men are properly instructed.

If you have a lot of, say, arbovitae about five or six feet high, try to line them up, about fifty of them, as we do in the garden center. One is pointing this way, and the next is leaning that way. It does not make a pleasing appearance.

Labeling is important, and labeling correctly is more important. It is easy enough to get a bunch of labels and slip them on, but it is another thing when you sell a choosy customer a good single, dark red lilac when it is dormant and she calls you up in late May and says, "My beautiful dark red lilac turns out to be an awful washed-out lavender, and, besides that, it is double."

You lose good will. You also have cost yourself some money because, if you are going to take care of that customer right, you must send somebody down to her place, dig up the plant, replace it and bring the other one back.

All these shortcomings I have talked about hurt the reputation of the retailer, and the retailer is the man who is the market for the wholesalers. So, when you think, "Well, I can get by. We are in a hurry. Just take any one back there, tie the corner and let it go," you may not feel it this year, but sooner or later, the practice is going to catch up with you.

Tying evergreens when you dig them is another matter to watch. I think most nurseries find it necessary to tie up the tops of plants like hemlocks, that are broad, in order to get underneath them and dig with a good ball. Unless you watch your men

[Continued on page 37.]



RICHARD M. WYMAN, JR.

Richard M. Wyman, Jr., who is the new president of the New England Nurserymen's Association after serving two years as vice-president, grew up in the nursery business; so by the time he graduated from Dartmouth College in 1939 he was familiar with most of the nursery operations.

The third generation to be associated with Wyman's Framingham Nurseries, he has been general manager of the firm since he left the army in 1940, after serving in it for four years. His father purchased the nursery in 1920 from his grandfather, W. H. Wyman.

Mr. Wyman, Jr., was instrumental in developing Wyman's Garden Center, one of the largest and most modern retail nursery and garden supply businesses in the east. Designed to facilitate speed and service, the garden center consists of a main building 43x65 feet, with an all-glass front. It is flanked at one end by a curved glass greenhouse and at the other end by a lath house. The center carries a complete line of horticultural supplies as well as seeds, ornamental nursery stock and house and bedding plants.

Talk on "What the Retail Landscape Nurseryman Expects When He Buys Nursery Stock," by Richard M. Wyman, Jr., of Wyman's Framingham Nurseries, Framingham, Mass., February 8, before the New England Nurserymen's Association.

A Wholesaler Answers Back

By Alfred Angel

I have no intention of denouncing as untruths the charges made as to failings of the nursery business, for that would be a dishonest act on my part. The practices set forth are common to most of us, some to the extreme and others to a lesser degree.

Circumstances beyond our control are responsible in a number of cases. There are but few of the accusations made against us of which the retail landscape nurserymen themselves are not accused by their own customers. In other words, it is wrong for us to commit them, on one hand, but perfectly all right when the other fellow does the same thing.

My purpose is to bring out the reasons for our shortcomings, which we must admit, and let the other fellows stand on their own feet.

It is not a question of a retail landscape nurseryman's expecting to receive this, that or the other thing, when he orders nursery stock. He is free at all times to go to the nursery of his choice and pick out the stock that meets with his approval.

So far as the wholesalers are concerned, there is still a sellers' market. However, this does not mean that there is not enough stock to fill a reasonable demand.

The problems of the wholesale nurseryman are many. He is still trying to get back to normalcy after World War II, which ended four years ago.

When you take into consideration the fact that it takes a number of years, say six to eight, to grow a pretty good plant, we cannot be expected to have had a good time over that period. In fact, I think we are in as bad a shape now as we were at the end of World War II.

There was a considerable shortage of lining-out stock back in 1945, and then we all pushed into growing lining-out stock to meet that shortage, and what happened? It was not more than a couple of years until we were overloaded again.

Now what has happened is the reverse. Now we are back to where we do not have sufficient lining-out stock to meet our requirements. The fast-growing shrubs, that only take a

couple of years to produce, are in plentiful supply. As far as shade trees and evergreens are concerned, I think anybody will admit that one has to plan his work to use those varieties which are available, and a nurseryman has to do his best to fill the retail nurseryman's needs.

When nurserymen are out of one type of plant—and there are any number of them that I can mention—that automatically creates a demand for another similar plant. Before you know it, both of them are sold out, and that is happening every day.

I have talked to many nurserymen, and they agree with me that desirable labor is still hard to obtain. The quantity is there, but not the

mencing this year and going into next year.

The whole industry is geared on the top sizes that are obtainable in a given period. The buyer is not going to get the top sizes in the nursery for this period, nor the same things he elected to get, but will receive many of the smaller sizes.

I think the profit-and-loss sheet, come December 31, 1950, and December 31, 1951, will bear this out: You will have sold your stock; you will have spent your money on labor, because it costs just as much money to dig a 15 to 18-inch plant as it does an 18 to 24-inch or 2 to 2½-foot plant. But, at the same time, we cannot charge the retail nurserymen any more for those plants.

In shipping fifty or 100 plants, it is true that there may be some plants in the lot that, in many cases, will not be salable. But I think nurserymen that ship out twenty per cent that are not salable would be a minority, because no nurseryman can stay in business doing no better than that.

Another thing to be taken into consideration is that there might be some pretty nice specimens in the lot, too. Maybe it is true some are a little undersized and not just perfect, but just think of some of those nice specimens in there, also. I think the whole lot will balance out.

The point is raised that the public is willing to pay only up to a certain point. That is a general rule, but there are exceptions to it. The public seems willing to pay so much for evergreens and no more. But I think if the nursery industry as a whole adopted the policy of growing only specimen stock, such as the retail nurserymen would like to get 100 per cent, then we should have to raise prices to the point where the retail nurseryman would not be able to pay for the goods.

I know no other industry, outside the farmers and the nurserymen, where it is necessary to produce to capacity at all times, and there is but a slight hope for a market when the stock becomes salable. I think it takes a lot of capital and a lot of ingenuity on the part of nurserymen to do this.

None of us can deny the fact that the demand for stock in the past three or four years has been tremendous, and if the nursery industry were to go out and try to meet this demand,

[Continued on page 60.]



Alfred Angel.

quality. So it is up to the nurseryman to go out of his way and hire men, and hold them the year around by providing jobs for them.

As to the grading of nursery stock, I do not think the specifications are rigid enough. Standards on roses are pretty specific. When you buy a No. 1, No. 1½ or No. 2 rose, you know what you are getting. But standards on other nursery stock are weak because the grade varies too much. Not many nurserymen know what the grades stand for. I think we can improve a lot in this respect, and do it ourselves, not wait for others to do it for us.

In New England we have just experienced two poor growing years, and I think the nurserymen will feel the pinch on their pocketbooks com-

This talk, entitled "A Wholesaler Answers Back," by Alfred Angel, of the Boulevard Nurseries, Newport, R. I., followed the talk on the opposite page, on the educational day program, February 8, of the New England Nurserymen's Association.

STRIBLING'S TREE DIGGER.

A disease-resistant peach rootstock and a tree digger are the newest developments of Stribling's Nurseries, Merced, Calif. The Scorpion, as the Striblings have named the digger, does in a single hour what six men, two tractors and two horses formerly took eight hours to accomplish. Built around a Caterpillar D4 tractor, the machine not only digs trees faster, but also digs them with a better root system, according to its developers, Bert Stribling III and Jess Ozscoidi.

Another source of pride for the firm is its S-37 rootstock for peach, nectarine and almond which is highly resistant to nematode and crown gall peach diseases. Now considered by the Striblings to be their most valuable product, S-37 was developed at the firm's experimental grounds at Atwater during fourteen years of experiments.

Originally the experiments were intended to discover some possible control for crown gall. But in the course of the experiments, for which 3,000 seedlings of flowering peach, *Prunus persica* var., were planted in 1935 in a soil heavily infested with nematodes, several of the seedlings showed marked vigor in growth. So buds were taken from these seed sports, and a seed orchard was set out from which to reproduce other seeds and seedlings. The resulting seedlings were also found to be high-



Scorpion Tree Digger Cutting 2-year-old Fig Trees.

ly resistant to nematode and crown gall diseases. From this large budded seed orchard are produced all of the S-37 resistant seeds used throughout the country. Plantings of the rootstock have been made as far off as Palestine.

The name S-37 was the code number used to identify the experimental plot from which this rootstock came. The S-37 has been given plant patent 904.

The Stribling's Nurseries were founded by Bert T. Stribling, Jr., who is aided in its management by three sons. Bert III is field production manager, Willis is business manager and Ivan is landscape architect. They boast thirty-eight years' nursery and gardening experience. Ivan writes a regular column, "Gardening Notes," for a Merced county farm publication, the Valley Rancher. The firm does both a wholesale and retail business.

In addition to the salesgrounds at Merced, and the experimental grounds at Atwater, the firm's 500 acres include growing grounds at Kelley and Helmer for fruit trees, shade trees and ornamentals; at Plainsburg for yearling and June-bud fruit trees, at Le Grand for Shalil seeds and some field-grown ornamentals, and at La Branza for grapevines and fig trees.

TEXAS ROSE FOUNDATION RECEIVES GIFT TRACTOR.

A thousand dollar Farmall Cub tractor for experimental work in the field production of rosebushes was recently presented to the Texas Rose Foundation, at Tyler. The generous donor was E. E. Hendrix, operator of Hendrix Farms Supply, also at Tyler.

Representing the Texas Rose Research Foundation at the official presentation were Carl Shamburger, president; Dr. E. W. Lyle, pathologist, and P. C. Moore, who represented the commercial rose grower membership.



The Striblings inspect a tree on S-37 rootstock dug by their new tree digger. Left to right: Bert III, field production manager; Ivan, landscape architect; Bert, Jr., founder and owner, and Willis, business manager.

BUNTINGS' NURSERIES, Inc.

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Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices.

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Spring months.

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00		
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	\$65.00	\$600.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00	450.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00	125.00

Belle of Georgia, Brackett, Carman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hiley, J. H. Hale, Krummel's Late, O'Boy, Redhaven, Rochester, Chipper's Late Red, Summercrest, Triagem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.65	5.00	40.00	350.00
9/16 to 11/16-in., 4 to 5 ft.....	.60	4.50	35.00	300.00
7/16 to 9/16-in., 3 to 4 ft.....	.45	3.50	25.00	200.00
5/16 to 7/16-in., 2 to 3 ft.....	.40	3.00	20.00	150.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
11/16-in. and up, 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckel.

SOUR CHERRY

	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.10	\$9.50	\$85.00	\$750.00
9/16 to 11/16-in. cal.....	1.00	8.50	75.00	650.00
7/16 to 9/16-in. cal.....	.90	7.50	65.00	550.00
5/16 to 7/16-in. cal.....	.80	6.50	55.00	450.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

	Each	Per 10	Per 100	Per 1000
11/16-in. cal. and up.....	\$1.25	\$11.00	\$100.00	\$900.00
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00	90.00	800.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50	75.00	650.00
5/16 to 7/16-in., 2 to 3 ft.....	.85	7.00	60.00	500.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

MARY WASHINGTON, PARADISE	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1 grade, heavy.....	\$1.10	\$4.00	\$8.50	\$30.00
2-yr., No. 1 grade.....	.85	2.75	5.25	18.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.	Per 25	Per 100	Per 250	Per 1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	\$85.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
5/8 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 5/8-in. cal.....	1.00	2.50	5.00	16.00

STRAWBERRY PLANTS

True to name—free from disease; grown in chemically-treated soil. Let us figure with you on your requirements.

STANDARD VARIETIES:	Per 25	Per 100	Per 250	Per 1000
Blakemore.....	\$0.40	\$1.25	\$2.25	\$ 7.50
Big Joe, Dunlap, Fairland, Robinson, Sparkle and Temple.....	.40	1.25	2.25	8.00
Ambrosia Late, Aroma, Catskill, Dorsett, Fairfax, Fairpeake and Lupton Late.....	.45	1.35	2.50	8.50
Chesapeake, Massey, Premier and Red Star.....	.45	1.35	2.50	9.00

EVERBEARING VARIETIES:

Mastodon, Gem and Gemzeta.....	.75	2.50	5.50	18.00
Streamliner.....	1.00	2.75	6.25	22.50
Superfection.....	1.25	3.25	7.00	25.00

GRAPEVINES

Our grapes have heavy, fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

CONCORD (blue):	Each	Per 10	Per 100	Per 1000
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$11.00	\$ 80.00
1-yr., No. 1 grade.....	.20	1.50	8.00	50.00

FREDONIA (black),

NIAGARA (white):

2-yr., No. 1 grade.....	.25	1.75	12.00	100.00
1-yr., No. 1 grade.....	.20	1.50	9.00	70.00

AGAWAM (red), BRIGHTON (red), CACO (red).

CATAWBA (mahogany), MOORE'S

DIAMOND (white), MOORE'S

EARLY (black), WORDEN (black):

2-yr., No. 1 grade.....	.30	2.00	15.00	120.00
1-yr., No. 1 grade.....	.25	1.75	12.00	90.00

DELAWARE (red), PORTLAND (white):

2-yr., No. 1 grade.....	.30	2.25	18.00	150.00
1-yr., No. 1 grade.....	.25	2.00	15.00	120.00

PLUM TREES

	Each	Per 10	Per 100	Per 1000
11/16 to 7/8-in., 5 to 6 ft.....	\$0.90	\$7.50	\$65.00	\$600.00
9/16 to 11/16-in., 4 to 5 ft.....	.75	6.00	50.00	450.00
7/16 to 9/16-in., 3 to 4 ft.....	.60	4.50	35.00	300.00

Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.

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Plant Notes Here and There

By C. W. Wood

Last year I bought from five different sources plants that were *Dianthus caesius* according to the labels, and no two of them were alike or even fairly similar. It is easily conceivable that one could become mixed up in its forms, but when *D. arenarius* with its deeply fringed petals was substituted for the broad-petaled, faintly toothed *caesius*, one knows that the grower was not too careful with his names. For several years I was greatly interested in watching and studying a group of *D. caesius* forms, trying to arrive at what the name really meant. The only conclusion I could reach was that it means little.

In fact, the botanists tell us that the name *caesius* really means nothing, for they have now given it the unwieldy name of *D. gratianopolitanus*. To help make the character of the plant clear, I give in brief this botanical description: A low tufted plant, two to six inches tall in nature and as much as a foot or fifteen inches in some of its cultivated forms. Stems, erect, angled, bearing usually a single flower, though two or more rarely occur. Leaves, short-pointed, rather broad, two inches or less long, 3-nerved beneath. Flowers, rose-pink, an inch or slightly more across, fragrant; petals, broad, and margins, sharp-dentate but not fringed. And, of course, many other technical details. *D. caesius* is highly variable as it wanders through central and southern Europe, giving rise to several botanical varieties.

As a consequence of my rather desultory study, I came to the conclusion that a complete unraveling of the skein would take more time, as it does in the case of many another pink species that has been long in gardens, than a busy gardener with too little botanical knowledge can afford to devote to the subject. During the process, however, several interesting facts and not a few beautiful plants came to light.

Among the former were Williamson's remarks in his monograph of the genus on the origin of the generic name, from which I quote as follows: "The genus *dianthus* was founded by Linnaeus, and many of his species are described in the first edition of the 'Species Plantarum' published in 1753. The name is a most appropriate one and is one of Linnaeus' happiest selections in his generic titles. It is derived from *dios anthos*, mean-

ing the divine flower, in allusion to the singular beauty and fragrance of some of the species. A second derivation is *dianthis*, or the double flower, but this is only a concession to the prejudice of horticulturists, who have degraded so many of the divine flowers of nature to the rank of emasculated garden monstrosities. *Caryophyllus* was the pseudogeneric term used for many of the species described by pre-Linnaean botanists."

Of the forms known in gardens as belonging to *D. caesius* which were tried here in my garden in northern Michigan, the ones mentioned later seemed to me to be of special merit. Please note that I do not vouch for their botanical affinities, and one at least, the first in the list, is distinctly disallowed in Bailey's account of the genus in his "Garden of Pinks."

The plant long in gardens as *D.*

caesius arvernensis, at one time thought to be a geographical form of the species from Auvergne, is, according to Bailey, a "miniature race of another *dianthus*." And he says that the plants in gardens as *arvernensis* belong to the *D. freyni* group. Be that as it may, the plant I have in mind is a charming little thing, making compact mats of gray on which sit rose-pink flowers on 4-inch stems. Its blooming period here was quite long, lasting from late May into late July or early August, if it was not allowed to dry out in summer. Although all pinks are considered sun lovers, experience here with this one and other small *caesius* forms showed that they were better when they were given about half shade.

The plant we had as *D. Incombe*, supposedly a garden selection or perhaps a hybrid, with its silvered foli-

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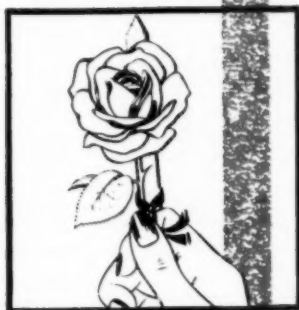
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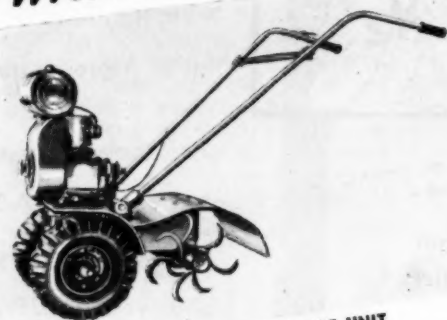
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age and pink flowers, was one of the loveliest things claiming relationship to caesus that I have seen. In addition to the good points mentioned, it also possesses the admirable trait of blooming nearly all summer, which, together with its dwarf compact habit, makes it something over which to enthuse.

Baker's variety, a garden form, is valuable where its more ample tufts of larger leaves and deeper-colored flowers can be used.

The variety Major will also find favor in quarters where a larger plant, one twice the size of ordinary caesus, is wanted.

Goldthreads.

Several inquiries within the past few months on the goldthreads prompt the inclusion here of a summary of a series of notes made at the conclusion of a trial in this garden about fifteen years ago.

The root of a plant seldom had any particular influence on a gardener's appraisal of its ornamental value, and perhaps has not in the case of coptis, but those little threads of gold are quite sure to entwine themselves about the seat of affection in every gardener who once allows them to enter his life. It is not their golden thread roots alone, however, that lay claim to our affections. The 3-parted, glossy green leaves and little white saucers, usually solitary on a short scape, three to five inches tall, make an appealing combination.

The foregoing observations have special reference to *Coptis trifolia*, the familiar species of the northern United States, although that is not the only goldthread the garden can command. One or two others at least are available at the cost of a little searching. In fact, *C. trifolia* is probably not the best of the genus, *C. asplenifolia*, a native of the Pacific northwest, coming close to that honor. Like the first-named, *C. asplenifolia* was evergreen here, at least when it was given a slight protection of boughs to catch and hold a few leaves or snow over the plant. The leaves in its case are so much cut as to suggest its specific name, which has reference, of course, to that genus of fern. Instead of the single-flowered scapes of *C. trifolia*, this one has many-branched flowering stems to support its numerous, creamy-white blooms, making a more floriferous plant and, I believe, a better garden ornament.

The goldthreads are not plants for mass production, their value being not readily apparent to the casual gardener. Where there is a critical

[Continued on page 57.]

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Prices per Package of 20 Plants

	Per package
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Premier	.50
Robinson	.50
Gem (Everbearing)	.50
Brunes Marvel (Everbearing)	.50
Superfection (Everbearing)	.60
Streamliner (Everbearing)	.60

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	Per 100	Per 1000
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Robinson	1.50	10.00
Dunlap	1.30	8.00
Temple	1.70	12.00
Fairland	1.70	12.00
Brunes Marvel (Everbearing)	1.70	12.00
Superfection (Everbearing)	3.00	25.00
Streamliner (Everbearing)	2.20	18.00
Gem (Everbearing)	1.90	14.00

250 at 1000 rate

Write for special quotations on quantity lots.

GRAPES

	Per 100	Per 1000
Concord, 2-l	\$10.00	\$ 80.00
Concord, 1-l	8.00	60.00
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Niagara, 1-l	9.00	70.00
Catawba, 2-l	11.00	90.00
Catawba, 1-l	9.00	70.00
Fredonia, 2-l	11.00	90.00
Fredonia, 1-l	9.00	70.00
Delaware, 2-l	14.00	120.00
Delaware, 1-l	11.00	90.00
Van Buren, 2-l	25.00	200.00
Van Buren, 1-l	15.00	125.00
Caco, 1-l	10.00	
Sheridan, 2-l	16.00	
Sheridan, 1-l	12.00	
Golden Muscat, 2-l	25.00	
Golden Muscat, 1-l	15.00	
Seneca, 2-l	35.00	
Seneca, 1-l	25.00	

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BLACKBERRIES

	Per 100	Per 1000
Eldorado, transplants	\$6.50	
No. 1, root cuttings	(Sold Out)	
1-yr., med., root cuttings	3.50	\$25.00
Alfred, transplants	6.50	
No. 1, root cuttings	(Sold Out)	
1-yr., med., root cuttings	3.50	25.00
Early Harvest, transplants	7.00	
No. 1, root cuttings	(Sold Out)	

CURRENTS

	Per 100	Per 1000
Wilder, 3-yr., heavy	\$15.00	\$130.00
Wilder, 2-yr., No. 1	12.00	100.00
Wilder, 1-yr., No. 1	7.00	60.00
Red Lake, 2-yr., No. 1	16.00	
Red Lake, 1-yr., No. 1	12.00	

GOOSEBERRIES

	Per 100	Per 1000
Downing, 2-yr., No. 1	(Sold Out)	
Houghton, 2-yr., No. 1	\$25.00	
Champion, 2-yr., No. 1	(Sold Out)	

RED RASPBERRIES

	Per 100	Per 1000
Latham, transplants	\$7.50	\$62.50
Latham, 1-yr., No. 1	6.00	47.50
Chief, transplants	7.00	60.00
Chief, 1-yr., No. 1	5.50	45.00
Sunrise, transplants	7.00	60.00
Sunrise, 1-yr., No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
Indian Summer, 1-yr., No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
St. Regis, 1-yr., No. 1	5.50	45.00

PURPLE RASPBERRIES

	Per 100	Per 1000
Sodus, No. 1, tips	\$5.50	

BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland, transplants, No. 1	\$8.00	\$70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Logan, transplants, No. 1	8.00	70.00
transplants, No. 2	6.50	55.00
tips, No. 1	4.50	35.00
Morrison, transplants, No. 1	9.00	80.00
transplants, No. 2	7.50	65.00
tips, No. 1	5.00	40.00

BOYSENBERRIES and DEWBERRIES

	Per 100	Per 1000
Boysenberry (Common), No. 1, tips	\$5.00	\$40.00
Boysenberry (Thornless), No. 1, tips	5.50	45.00
Lucretia Dewberry, No. 1, tips	5.00	40.00

BLUEBERRIES

	Per 100	Per 1000
Rancocas (Early Jersey) (Late)		
2-yr., Each 9 to 12 ins.	\$0.40	\$3.50
3-yr., 12 to 18 ins.	.55	5.00
4-yr., 18 to 24 ins.	.75	7.00
5-yr., 24 to 36 ins.	1.00	9.50

ASPARAGUS

	Per 100	Per 1000
Paradise and Washington		
3-yr., heavy	\$4.00	\$30.00
2-yr., No. 1	2.30	18.00
1-yr., No. 1	1.70	12.00

VICTORIA RHUBARB

	Per 100	Per 1000
1 1/2-in. and up, whole roots	\$8.00	\$75.00
1 to 1 1/2-in., whole roots	5.50	50.00
3/4 to 1 -in., whole roots	4.00	35.00
1/2 to 3/4-in., whole roots	3.00	25.00

RED RHUBARB

	Per 100	Per 1000
Canada Red, No. 1, divisions	\$40.00	\$350.00
MacDonald, No. 1, divisions	30.00	250.00

HORSE-RADISH

	Per 100	Per 1000
Cuttings, 4 to 5 ins.	\$2.00	
Whole roots	(Sold Out)	

Coming Events

MEETING CALENDAR.

May 15 and 16, Georgia State Nurserymen's Association, Radium Springs, Albany.

May 21 to 23, Florida State Florists and Nurserymen's Association, Palm Beach Biltmore hotel, Palm Beach.

May 21 to 23, Louisiana State Horticultural Association, Community Center, Alexandria.

May 24 and 25, short course for nurserymen, California State Polytechnic College, San Luis Obispo.

June 9 and 10, South Carolina Nurserymen's Association, Poinsett hotel, Greenville.

June 11 to 13, Alabama State Nurserymen's and Florists' Association, Tutwiler hotel, Birmingham.

June 25 to 27, Mississippi Florists' and Nurserymen's Association, Hotel Heidelberg, Jackson.

July 15, Ornamental Growers' Association, Hotel Statler, Washington, D. C.

July 15, Fruit Tree Growers' Association, Hotel Statler, Washington, D. C.

July 16, All-America Rose Selections, Inc., Hotel Statler, Washington, D. C.

July 16 to 21, American Association of Nurserymen, Hotel Statler, Washington, D. C.

July 17, National Association of Plant Patent Owners, Hotel Statler, Washington, D. C.

July 17, American Nurserymen's Protective Association, Hotel Statler, Washington, D. C.

July 18, Retail Nurserymen's Association, Hotel Statler, Washington, D. C.

July 18, National Landscape Nurserymen's Association, Hotel Statler, Washington, D. C.

July 18, Association of Nursery Association Secretaries, Hotel Statler, Washington, D. C.

August 3, Indiana Association of Nurserymen, Jackson & Perkins of Indiana, Inc., Richmond.

August 14 and 15, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

August 21 to 23, Texas Association of Nurserymen, Rice hotel, Houston.

August 21 to 25, National Shade Tree Conference, Hotel Syracuse, Syracuse, N. Y.

August 28 to 30, Northern Nut Growers' Association, Legion hall, Pleasant Valley, N. Y.

September 12 to 14, California Association of Nurserymen, Santa Cruz.

LOUISIANA CLINIC.

A nursery clinic will be held May 22 and 23 in conjunction with the convention of the Louisiana State Horticultural Association which is being held at the Community Center, Alexandria, May 21 to 23. Rene Casadaban, Casadaban's Nurseries, Abita Springs, who is the nurserymen's vice-president of the horticultural association, is chairman of the clinic.

James A. Foret, of the horticultural department at Iowa State College, Ames, will speak on "Azalea

Nutrition and Weed Control." Walter Peevy, professor of agronomy at Louisiana State University, University Station, will discuss "Conditioning of Soils, Humus and Fertilization." "The Camellia Petal Blight" will be the topic of a talk by Dr. A. G. Plakidas, plant pathologist at Louisiana State University, who has done extensive research work with that flower.

The second day of the clinic will be devoted to a tour of the local nurseries conducted by John Poole, Poole Bros., Lecompte.

FLORIDA CONVENTION.

The Palm Beach Biltmore hotel, Palm Beach, one of Florida's finest hotels, has promised the Florida State Florists' and Nurserymen's Association as many of its 700 rooms as needed and all its facilities for the association's convention there May 21 to 23. Low American plan rates were offered by the hotel and have been accepted by the association's board of directors. Since the buffet supper the Sunday night and the banquet will be included in the Amer-

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<i>Taxus browni</i> , 15 to 18 ins.....	\$2.75	
<i>Taxus browni</i> , 18 to 24 ins.....	3.75	
<i>Taxus hicksi</i> , 18 to 24 ins.....	3.00	
<i>Taxus hicksi</i> , 24 to 30 ins.....	4.00	

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ican plan, the convention registration fee has been reduced from the usual \$10 to \$4. European plan is also available at the hotel, but those taking it will be required to pay the \$10 convention registration fee.

In addition to the hibiscus show Sunday afternoon, there will be a large trade show on the concourse of the hotel's first floor.

The nurserymen's and florists' groups will hold separate educational sessions and also join for general sessions Monday and Tuesday. On Monday the greenskeepers' group of seventy-four members will hold its annual business and educational meeting.

General convention chairman is E. Tinsley Halter, Island Landscape Co., Palm Beach. C. Leslie Whipp, Callahan, president of the nurserymen's group and secretary of the state association, is heading the arrangements for the nurserymen's program with the assistance of Mr. Halter. Other chairmen of convention committees are C. F. Coffey, Jr.,

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3 to 6 ins., sdgls....	1.50	10.00
* 6 to 9 ins., sdgls....	2.50	15.00
* 9 to 12 ins., sdgls....	6.00	40.00
* 12 to 18 ins., sdgls....	8.00	65.00
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florists; Pat Deavy and Ward Wood, greenkeepers; Volley Townsend, entertainment; Mr. and Mrs. A. A. Gregg and J. K. Brower, program; Julie Thomas, publicity; L. M. Geisen, trade exhibits; Edith Stultz, registration; J. K. Brower, local treasurer, and Mrs. L. M. Geisen, local secretary.

FLORIDA Hibiscus Show.

The problem of deciding upon the correct names of many of the newer hibiscus varieties is the primary reason for the Florida state hibiscus show sponsored by the Florida State Florists' and Nurserymen's Association, to be held May 21, at the Biltmore hotel, Palm Beach, as a feature of the association's convention there May 21 to 23. While the show will be open to the public from 2 p. m. to 4 p. m., the morning will be devoted to a conference of hibiscus authorities and commercial growers in an attempt to correct errors and duplications in names and to establish authoritative names.

A few years ago, there were only about a dozen varieties of hibiscus generally used for plantings, and of these the old single red variety was planted as much as all the others combined. Now there are hundreds of outstanding varieties, for new varieties are rapidly being produced in Florida, according to M. J. Daetwyler, Daetwyler Nurseries, Orlando, general chairman of the show. A confusion of names has been the natural result, and there are cases where one variety is known under three different names or one name is applied to several varieties.

Another new feature of the hibiscus is its recent development from plant material used almost exclusively for landscaping into a popular cut flower. The main disadvantage of this use is that most hibiscus flowers last only a day, closing at sundown. It can, however, be depended upon for wear at night if picked early in the morning and placed in the icebox hydrator. There are some 2-day hibiscus flowers, and the breeders are working toward producing other longer-lasting flowers. The 2-day flower can be worn through the day and will hold up through the night.

CALIFORNIA DATES.

The California Association of Nurserymen is holding a short course at the California State Polytechnic College, San Luis Obispo, May 24 and 25.

The executive secretary of the association, Elmer J. Merz, Sacramento,

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SHRUBS			ORNAMENTAL TREES		
	Per 10	Per 100		Per 10	Per 100
Almond, Pink-flowering			Redbud (Cercis Canadensis)		
18 to 24 ins., O.R.	\$4.50	\$40.00	5 to 6 ft.	\$12.50	\$110.00
Barberry, Thunbergi			4 to 5 ft.	9.50	85.00
15 to 18 ins.	2.40	20.00	3 to 4 ft.	7.00	65.00
12 to 15 ins.	1.80	15.00	2 to 3 ft.	4.50	40.00
Buddleia (Butterfly Bush)			Schwedler Maple		
No. 1			8 to 10 ft., wh.	25.00	
Charming, pink	2.90	25.00	5 to 6 ft., wh.	17.50	
Dubonnet, reddish	2.90	25.00	Thurlof Weeping Willow		
Floralart, lavender	2.90	25.00	5 to 6 ft.	6.50	60.00
Red	4.00	35.00	4 to 5 ft.	4.00	35.00
Cydonia Japonica			Wisconsin Weeping Willow		
(Jap. Quince)			6 to 8 ft.	9.50	90.00
18 to 24 ins.	2.90	25.00	5 to 6 ft.	6.50	60.00
12 to 18 ins.	2.10	18.00	4 to 5 ft.	4.00	35.00
Euonymus Americanus				Per 10	Per 100
2 to 3 ft.	4.50	40.00			
18 to 24 ins.	3.50	30.00	Lombardy Poplar		
Hydrangea Peegee			6 to 8 ft., br.	\$4.50	\$40.00
2 to 3 ft.	5.50	50.00	6 to 8 ft., wh.	13.50	\$125.00
18 to 24 ins.	4.00	35.00	5 to 6 ft., br.	2.90	25.00
Lonicera Tatarica Rosea			5 to 6 ft., wh.	11.00	100.00
2 to 3 ft.	4.00	35.00	4 to 5 ft., br.	2.20	18.00
Philadelphus Coronarius			4 to 5 ft., wh.	9.00	80.00
2 to 3 ft.	3.20	28.00	3 to 4 ft., wh.	7.50	65.00
18 to 24 ins.	2.50	22.00			
Philadelphus Virginalis			SEEDLINGS		
2 to 3 ft.	6.50	60.00	Ash, Green	Per 100	Per 1000
18 to 24 ins.	5.50	50.00	12 to 18 ins.	\$1.90	\$16.00
Prunus Triloba			6 to 12 ins.	1.20	10.00
2 to 3 ft.	6.50	60.00	Catalpa Speciosa		
Spiraea Arguta			12 to 18 ins.	1.40	12.00
18 to 24 ins.	2.90	25.00	6 to 12 ins.	1.00	8.00
12 to 18 ins.	2.10	18.00	Elm, Chinese		
Spiraea Vanhouttei			12 to 18 ins.	1.70	14.00
3 to 4 ft.	3.50	30.00	6 to 12 ins.	1.00	8.00
2 to 3 ft.	2.50	22.00	Locust, Black		
18 to 24 ins.	1.90	16.00	2 to 3 ft.	2.50	22.00
12 to 18 ins.	1.40	12.00	12 to 18 ins.	1.40	12.00
Tamarix Africana			6 to 12 ins.	.90	8.00
3 to 4 ft.	4.00	35.00	Russian Olive		
2 to 3 ft.	3.50	30.00	12 to 18 ins.	3.00	25.00
Weigela Eva Rathke			6 to 12 ins.	2.10	18.00
18 to 24 ins.	4.50	40.00	Osage Orange		
12 to 18 ins.	3.20	28.00	12 to 18 ins.	1.20	10.00
			6 to 12 ins.	.70	60.00
			Pecan, Native		
			12 to 18 ins.	6.50	60.00
			6 to 12 ins.	4.50	40.00
			Privet		
			Amur River North	Per 100	Per 1000
			3 to 4 ft., 5 canes	\$18.50	\$175.00
			2 to 3 ft., 4 canes	13.50	125.00
			18 to 24 ins., 3 canes	11.00	100.00
			12 to 18 ins., 2 canes	7.00	60.00
			Vines		
			American Bittersweet	Per 10	Per 100
			1-yr., No. 1	\$2.50	\$22.00
			Scarlet Trumpet Honeysuckle		
			1-yr., No. 1	2.40	20.00
			Fall Bulbs		
			It's time to begin thinking about		
			Tulips, Hyacinths, Narcissi, Crocuses		
			and your other needs. Our price list		
			will soon be ready. Send for it!		

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LINERS

	Each per 100	Each per 1000		Each per 100	Each per 1000
849 Juniperus Horizontalis Plumosa, 1-yr. pots	\$0.17	\$0.15	5265 Taxus Media, Globe, 1-yr. pots	\$0.20	\$0.18
1391 Juniperus Communis, Vase, 1-yr. pots	.17	.15	7655 2-yr. pots	.23	.21
3742 Taxus Cuspidata, 1-yr. pots	.20	.18	2741 6 to 8 ins., x.	.25	.22
6022 2-yr. pots	.25	.23	1349 10 to 12 ins., xx	.35	.32
3799 6 to 8 ins., x.	.27	.24	2731 Taxus Media Hatfieldi, 1-yr. pots	.20	.18
3960 Taxus Cusp. Intermedia, 2-yr. pots	.25	.23	2909 2-yr. pots	.24	.22
1017 Taxus Cusp., Kallay's Imp., 6 to 8 ins., x.	.27	.24	1384 6 to 8 ins., x.	.25	.23
1689 Taxus Cusp. Nana, 1-yr. pots	.20	.18	2417 8 to 10 ins., xx	.28	.25
4266 2-yr. pots	.23	.21	9503 Taxus Media Hicksi, 1-yr. pots	.19	.17
897 6 to 8 ins., x.	.25	.24	1114 2-yr. pots	.23	.21
1772 Taxus Cusp. Pyramidalis Hilli, 1-yr. pots	.20	.18	4085 10 to 12 ins., xx	.34	.31
1396 2-yr. pots	.24	.22	1865 Taxus Media Thayerae, 1-yr. pots	.20	.18
1884 6 to 8 ins., x.	.26	.24	1195 Taxus Media Wellesleyana, 2-yr. pots	.24	.22
3226 Taxus Cusp. Tardiva, 2-yr. pots	.24	.22	410 Thuja Occidentalis Elegantisima, 1-yr. pots	.16	.14
			930 Thuja Occidentalis Globosa, 1-yr. pots	.16	.14
			1897 Buxus, Carr's Hardy, 1-yr. pots	.20	.18
			883 2-yr. pots	.24	.22

FINISHED SIZES

Fine, finished, landscape grades, all B&B. 5 or more at the 10 rate; 25 or more at the 100 rate.

	Each per 10	Each per 100		Each per 10	Each per 100
600 Juniperus Chin. Pfitzeriana, 3 to 4 ft.	\$6.00	\$5.50	250 Juniperus Virg. Kosteri, 3 to 4 ft.	\$6.00	\$5.50
600 4 to 5 ft.	7.00	6.50	500 Taxus Cuspidata, 18 to 24 ins.	4.50	4.00
400 Juniperus Horizontalis Plumosa, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
300 2½ to 3 ft.	3.00	2.75	500 Taxus Media Hicksi, 18 to 24 ins.	4.50	4.00
300 Juniperus Horizontalis Douglasi, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
100 Juniperus Virg. Pyramidalis, 7 to 8 ft.	10.00	9.00	100 Thuja Occidentalis, 4 to 5 ft.	4.00	3.75
			100 Thuja Occidentalis Pyramidalis, 4 to 5 ft.	4.50	4.00
			200 Thuja Occidentalis Wareana, 2½ to 3 ft.	3.25	3.00



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Clean, bushy, collected plants from the Blue Ridge Mountains of North Carolina and Virginia, and all are cut-back or burnt-over plants, selected and dug with greatest possible care.

Also all collected seedlings—including Hemlocks.

	Rhododendron Maximum	Rhododendron Catawbiense	Kalmia Latifolia	Azaleas Calendulacea and Nudiflorum
Each				
18 to 24 ins.	\$1.24	\$2.50	\$1.40	\$1.75
2 to 2½ ft.	2.25	3.25	1.75	2.50
3 to 4 ft.	3.25	4.00	3.00	3.50
4 to 5 ft.	4.50	5.00	5.00	4.50

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Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

has announced also that the California association's annual convention will be held September 12 to 14 at Santa Cruz.

MICHIGAN CONFERENCE.

The annual nursery and landscape management conference at Michigan State College, East Lansing, will be held July 13 and 14. The theme of the conference is "Selling, Servicing and Customer Relations," and the meetings are being planned to be of particular value to the small nurseryman, according to F. L. O'Rourke, assistant professor of horticulture at Michigan State College.

The \$8 fee will cover registration, meals, lodging and banquet for the 2-day conference.

LANDSCAPE NURSERYMEN PLAN WILLIAMSBURG TRIP.

Members of the National Landscape Nurserymen's Association will visit Colonial Williamsburg, Va., July 14 and 15, on a pre-convention tour in conjunction with the American Association of Nurserymen's annual convention to be held at Washington, D. C., July 17 to 21. The N. L. N. A. is an affiliated organization of the A. A. N. and will hold its own annual meeting July 18 at the Hotel Statler, Washington, D. C.

With an early arrival at Colonial Williamsburg on Friday, the 2-day tour allows time for an informal tour of the colonial grounds. The resident landscape architect will accompany the tour and answer questions.

The group will be limited to fifty only, and reservation blanks for rooms at the Williamsburg Inn or the Williamsburg Lodge have been sent to N. L. N. A. members.

An interesting, 4-hour travelcade has been planned for Monday afternoon, July 17, to allow members of the landscape nurserymen's association to view the progress made in landscaping the grounds of some of Washington's public buildings.

An opportunity to see the Strauss monument will be given the group on the way to its first stop at the National Gallery of Art. Continuing to the United States Capitol past the Botanical Gardens, the landscape men will stop to inspect the grounds of the Capitol, the Congressional library and Folger library. From there they will follow the Mall to the Jefferson memorial and on to the Lincoln memorial, followed by traversing the river route through part of the Rock Creek park out to Meridian Hill park.

VIRGINIA PLANS.

When the executive committee of the Virginia Nurserymen's Association met in March at the Hotel Statler, Washington, D. C., it voted to hold the summer meeting at the seashore after Labor day. W. L. Winn, Winn Nursery, Inc., Norfolk, will be program chairman.

In the meantime all efforts of the group will be bent on making a big success of the diamond jubilee convention of the American Association of Nurserymen. A gavel made of dogwood, Virginia's state tree, is to be presented to the A. A. N. by the Virginia Nurserymen's Association at the national convention in July.

The Virginia group has reengaged Mrs. Burrill as its publicist to keep local newspapers informed of the activities of its members attending the A. A. N. convention. She will also work for the Maryland Nurserymen's Association.

SHADE TREE CONFERENCE.

W. R. Hermann, Empire Tree Expert Co., Syracuse, N. Y., has been appointed general chairman for the annual Shade Tree Conference to be held at Hotel Syracuse, Syracuse, August 21 to 25.

Other chairmen who met April 15 with Mr. Hermann to discuss plans for the conference are as follows: Trade exhibits, Norman Armstrong, arborist, White Plains, N. Y.; publicity and attendance, Paul Wells, first deputy park commissioner, Syracuse; educational exhibits, Dr. D. S. Welch, Cornell University, Ithaca; entertainment, R. L. Holmes, Jackson & Perkins Co., Newark; physical arrangements, F. E. Karpick, assistant city forester, Buffalo, and field demonstrations, Kenneth Painter, Bartlett Tree Expert Co., Syracuse.

NUT GROWERS' PLANS.

Tentative plans for the annual meeting of the Northern Nut Growers' Association, August 28 to 30, at the new Legion Hall, Pleasant Valley, N. Y., were made during a recent meeting of Mr. and Mrs. Bernath, Bernath's Nursery, Poughkeepsie, N. Y.; Gilbert Smith, Benton & Smith Nut Tree Nurseries, Millerton, N. Y., and G. L. Slate, Geneva, N. Y.

The first two days will be devoted to meetings and lectures, while a field trip is planned on the last day to visit Bernath's Nursery and Benton & Smith Nut Tree Nurseries and to see the plantings made by Mr. Smith at the Wassaic state school, where the

PROFIT-MAKERS FOR 1950

FROM

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Virginia Seaside ROSES

We have most standard varieties of Hybrid Teas, as well as many patented varieties. Finest roses grown anywhere!

	Prices per 100	
	No. 1	No. 1 1/2
1 to 99	\$50.00	\$40.00
100 to 499	47.50	38.00
500 to 999	45.00	36.00
1000 and up	42.50	34.00



Finest Michigan-grown FRUIT TREES

APPLE	300 rate Each	STD. PEAR	300 rate Each
3/4-in.	\$0.45	3/4-in.	\$0.80
1 1/16-in.	.35	1 1/16-in.	.60
9/16-in.	.30	9/16-in.	.45
SWEET CHERRY		SOUR CHERRY	
1 1/16-in.	.90	1 1/16-in.	.75
9/16-in.	.80	9/16-in.	.65
7/16-in.	.65		
PLUM		PEACH	
3/4-in.	.80	3/4-in.	.55
1 1/16-in.	.60	1 1/16-in.	.45
9/16-in.	.45	9/16-in.	.35
		7/16-in.	.25

PYRAMID SPECIMEN THUJA

PYRAMIDS from 2 1/2 to 3 ft. up to 6 to 7 ft. Beautiful, full, straight, transplanted trees grown at Monroe. Our digging is famous. You will be sure of the best. Order at once; ten or more.

	Each per 10
2 1/2 to 3 ft.	\$2.15
3 to 4 ft.	2.75
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 7 ft.	7.75

THUJA WOODWARDI

Woodwardi is one of the best of all Globe Arborvitae; fine color, full, round plants. 15 to 18 ins., only \$1.40 each per 10.

TOP-QUALITY SHADE TREES

Steve O'Rourke issued a bulletin from Michigan State College recommending *Gleditsia triacanthos* and *inermis* (thornless) as very good shade trees. We have fine trees: 6 to 8 ft., only \$1.25 each; 8 to 10 ft., \$2.25 each. F.O.B. Monroe, Mich.

BUXUS SEMPERVIRENS
Hardy Box.
10 to 12 ins., B&B.
F.O.B. Cape Charles, Va.

TAXUS CUSPIDATA
Sheared, full plants. Fine specimens.
Each per 10
15 to 18 ins. \$2.75

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EVERGREEN LINERS

CONIFERS

All plants in 2 1/4-in. pots.

	Per 100	Per 1000
ARBORVITAE		
American Compacta	\$20.00	\$175.00
Elegantissima	20.00	175.00
Globosa	20.00	175.00
Lutea (Geo. Peabody)	20.00	175.00
Pyramidalis	20.00	175.00
CHAMAECYPARIS (Retinospora)		
Pisifera Filifera	17.50	150.00
Pisifera Crippsi	17.50	150.00
CUNNINGHAMIA		
Lanceolata Glauca	20.00	175.00
HEMLOCK	20.00	175.00
JUNIPERUS		
Conferta (Litoralis)	17.50	150.00
Kiyonoi	17.50	150.00
Sylvestris	20.00	175.00



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UNSOLD.

BROAD-LEAVED EVERGREENS

All plants in 2 1/4-in. pots.

	Per 100	Per 1000
COTONEASTER		
Francheti	\$17.50	\$150.00
Repens	17.50	150.00
Salicifolia	17.50	150.00
ELAEAGNUS		
Pungens	17.50	150.00
ILEX		
Cassine	17.50	150.00
Convexa Bullata, bed-grown	17.50	150.00
LIGUSTRUM Lucidum	17.50	150.00
PYRACANTHA		
Lalandi	17.50	150.00

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PRINCETON PRODUCTS ARE QUALITY PRODUCTS



Shade and Ornamental Trees, Shrubs, Vines, Evergreens, Hedge Plants, Ground Covers, Azaleas, Broad-leaved Evergreens, Pyracantha, Japanese Maples, Multiflora Roses, Fruit Trees and many scarce and hard-to-find items.

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QUALITY MERCHANDISE
AT REASONABLE PRICES

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KOREAN PINE (Nut Pine)

For PARKS and ESTATES

3 to 5 feet

ELFGREN NURSERIES

EAST KILLINGLY, CONN.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hindodegiri, Hinomayo, Nomo, Snow, Azalea Knempferi Hybrids; Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr., 3 to 5 ins., 18c ea.;
4 to 6 ins., 25c ea.

2-yr., 4 to 6 ins., 35c ea.
6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 18 to 24 ins., 75c ea. Acer atropurpureum, 1-yr. grafts, 9 to 12 ins., 75c ea. Lilacs, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

DEERFIELD NURSERIES
DEERFIELD STREET P.O., N. J.

PACHYSANDRA

The ideal permanent ground cover plant for shady areas in all climates. Strong, well rooted, 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; \$600 or more at \$32.50. Available now through November.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT
MILFORD DELAWARE

association will have a picnic luncheon.

Under consideration for the banquet meeting is the Beekman Arms, near Poughkeepsie, which is supposedly the oldest hotel in the United States. Hotel reservations may be made at Poughkeepsie, which is ten miles from Pleasant Valley and has the Nelson House, Campbell and King's Court hotels. Noon meals will be provided at Pleasant Valley.

COVER ILLUSTRATION.

Callicarpa Dichotoma.

The purple beauty-berry, Callicarpa dichotoma, or Callicarpa purpurea, is an upright spreading shrub to a height of about five feet where the plant is hardy. Because it is not fully top-hardy in the north central states or other regions with similar climatic conditions, it is usually seen in a somewhat smaller size.

The purple beauty-berry is a native of eastern and central China and Korea. It was first introduced into cultivation about 1857 and is now occasionally found growing wild in the eastern United States. Callicarpa derives its name from the words kalos, meaning beautiful, and carpos, meaning fruit. The specific name, dichotoma, refers to the fact that the branches and buds are regularly arranged, coming off on the main stem in a regular pattern. The old specific name, purpurea, of course, refers to the color of the fruit. The plant belongs to the verbenaceae family.

The upright stems of the purple beauty-berry are semiwoody, scurfy pubescent and slightly drooping at the tip. The leaves are about two and one-half to three and one-half inches long, usually slightly broader near the tip than at the middle, are wedge-shaped at the base and are quite coarsely toothed. They are light green in color.

The flowers of this small shrub are more or less insignificant, being small pinkish flowers appearing in late July and August.

The most attractive characteristic of the plant is the clusters of lilac-violet berries appearing in the axils of the leaves in the fall. They ripen in September and will remain effective until hard freezes. The individual fruits are small, but are borne in sufficient numbers in a cluster to make them attractive. In fact, it is one of the few shrubs that we have that exhibits this color of fruit.

This opposite-leaved shrub is not particular as to soil requirements. It will do well in quite acid to alkaline soils, but should be grown in a soil

GRAFTED STOCK

For Spring, 1950, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Fagus Sylvatica</i> Riversi	\$7.00	\$65.00	<i>Juniperus Virginiana</i> Glauca	\$5.00	\$45.00
<i>Juniperus Chinensis</i> Columnaris Glauca	5.00	45.00	<i>Juniperus Virginiana</i> Schottii	5.00	45.00
<i>Juniperus Chinensis</i> Columnaris Viridis	5.00	45.00	<i>Juniperus Virginiana</i> Pyramidaformis Hilli	5.00	45.00
<i>Juniperus Chinensis</i> Keteleeri	5.00	45.00	<i>Magnolia Soulangeana</i>	6.50	60.00
<i>Juniperus Chinensis</i> Meyeri	5.00	45.00	<i>Magnolia Soulangeana</i> Nigra	6.50	60.00
<i>Juniperus Virginiana</i> Burki	5.00	45.00	<i>Tsuga Canadensis</i> Pendula	5.50	50.00
<i>Juniperus Virginiana</i> Canaerti	5.00	45.00	<i>Tsuga Canadensis</i> Pendula, 1-yr. grafts	7.00	65.00

All the above shipped from 2 1/4-inch rose pots.

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

with good drainage. It will stand either full sun or partial shade.

Since the plant is not top-hardy in our territory, it is often necessary to cut it nearly to the ground each spring. This is not too objectionable with this particular plant, since it grows rapidly and will produce fruit on the new shoots in the fall of the year. Even where the plant is hardy, it is advisable to prune fairly severely, since the best flowers and fruit are borne on the new wood.

Propagation can be either by seeds or softwood cuttings. The seeds may be sown in flats in the greenhouse or in outdoor beds in the spring.

Since the beauty of this plant lies primarily in its attractive fruit, it should be used in a situation where the fruit is properly displayed. Since the plants may have to be cut back severely, it is best to use them in protected situations in the foreground of a border planting. L. C. C.

FIRE of unknown origin swept the lath house of Bradford's Wayside Nursery, Ocean Springs, Miss., on March 29. J. S. Bradford, the owner, reports that an entire year's production of camellias and azaleas was destroyed and that losses are estimated at over \$5,000.



20 MILLION TREES A YEAR

The above picture shows a section of Musser Nursery No. 2. Write for complete catalog on Evergreen seedlings and transplants, also Hardwood seedlings.

MUSSER FORESTS, Inc. INDIANA, PENNA.

VINES for Lining Out

	Per 100	Per 1000
<i>Euonymus radicans</i> vegetus, 1-yr., 2 1/2-in.	\$17.50	\$150.00
Honeysuckle, Hall's Japanese, 1-yr., 2 1/2-in.	10.00	80.00
<i>Polygonum auberti</i> , well rooted, 2 1/2-in.	16.50	150.00

F.O.B. Fairport, N. Y. Ready for immediate shipment.

JAMES I. GEORGE & SON

FAIRPORT, N. Y.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

ON LOCATING A NURSERY OFFICE.

Just after the war there was considerable enthusiasm for roadside salesyards, and there still is among nurserymen, myself included. But after a little further observation and reflection, I question if the roadside is the proper place for a nursery office. The more I have thought about it, the better I like the idea of an office located well in on the property, and to that end I might make these few somewhat unrelated comments.

A nurseryman I know started his nursery along a highway about a mile from an important ferry terminal, a bottleneck that forced every car to pass his nursery. His comment several years later was that everyone seemed in a hurry to catch the ferry or leave it.

About eleven years ago a new highway was built reducing the distance from our town to the next town of some size from thirty-five miles to seventeen miles, but by-passing our nursery two miles away. The only difference in business we noticed was to increase the volume from that neighboring town, and we lost no local business.

Locally, there has been controversy over locating a new super market, and it was remarked by a Maryland state roads commission official that the state was spending millions of dollars on highways to by-pass towns and move traffic and looked with disfavor on commercial establishments lining the highway to slow down traffic. Stores should be kept in the towns where people can shop, he said.

When people come to the nursery they are usually not in a hurry and they want to drive into the place, look around, drive around or walk around and talk to you. If your nursery covers considerable acreage, I think it would be a good idea to set the nursery office back as much as 200 yards or more from the highway. It would be desirable to have an attractive entrance and driveway and a convenient place to park near the office. This would give the customer a chance to get a good view of your plantings of nursery stock.

Location is important, yet the fable of "the better mousetrap" applies to nurseries as well as to, any other

business. Most of our largest and best known national mail-order nurseries operate out of small towns that are otherwise unknown. Similarly, the particular suburbs of our largest cities in which our largest landscape nurseries are located seem unimportant. From personal observation, the location of some nurseries seems outrightly ill-chosen, and most such nurseries seem to have just grown like Topsy.

E. S. H.

PLANT NAME CONFUSION.

When the revised edition of "Standardized Plant Names" was published, we resolved to make our catalog conform. The resolution was simpler to make than to carry out. "Standardized Plant Names" is a truly monumental work and represents tremendous work by the scholars who compiled it. No criticism that any of us could make is not already covered by the self-criticism contained in the preface. Yet com-

ments cannot help but resolve some of the confusion that still exists.

The hobby gardener knows and learns many plant names, both common and scientific, and to reeducate him is no simple matter. The abrupt change from the name *cydonia* to *chaenomeles*, for instance, takes a lot of catalog description. But to even the most untutored the name *japonica* means something as definite as the name Kodak. The word has attained a legitimacy in the language that is ineradicable.

The change of plant names, such as *Ligustrum japonicum* for *Ligustrum lucidum*, makes confusion twice confounded. And when it is explained that the names are now reversed, you certainly are not sure which way to order the plant nor to fill an order for it.

The use of the clonal symbol does not seem to have taken hold in the catalogs that come into our office, yet it seems to be the only solution for naming horticultural varieties. But when you do use it, it seems awkward. For instance, we grow a number of varieties of boxwood, yet, if we use *Buxus sempervirens*

ACER PLATANOIDES • NORWAY MAPLES

	Per 100
6 to 8 ft.	\$ 60.00
8 to 10 ft., 3/4 to 1-in. cal.	75.00
8 to 10 ft., 1 to 1 1/2-in. cal.	100.00
Specimen trees	125.00
9 to 11 ft., 1 1/4 to 1 1/2-in. cal.	200.00
Specimen trees	250.00
10 to 12 ft., 1 1/4 to 1 1/2-in. cal.	43.00
Specimen trees	4.00
11 to 13 ft., 1 1/4 to 2-in. cal.	5.00
Specimen trees	6.00

All these trees are well branched with fine fibrous roots and have been twice transplanted.

Additional charge of 15 per cent will be added for balling. No charge for loading trucks here at the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order.

Orders for less than 100 of a size will be invoiced at an ADVANCE of 25 per cent OVER THE HUNDRED RATE.

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State and Sprout Rds. MEDIA, PA.
Route 1

25,000 PINK DOGWOOD

This is the quantity we have grafted this year. Write now for keen prices on 1-year liners.

KOSTER NURSERY BRIDGETON, N. J.

QUALITY LINERS

	Per 100
Red-flowering Dogwood	
6 to 10 ins., grafts	\$55.00
Canadian Hemlock	
5 to 12 ins., trans.	15.00
Magnolia S. Nigra (red)	
8 to 15 ins. (own-root)	75.00

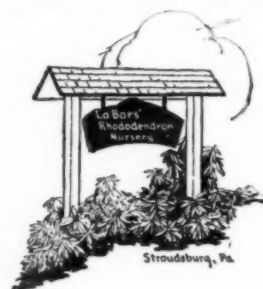
Send for new Spring list.

POSSUM HOLLOW NURSERIES 6327 Magnolia St. PHILADELPHIA, 44, PA.

LINERS

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Nursery Stock

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€ Truedwarf for English boxwood, it takes a lot of explanation to assure the customer that he is getting what he has always known as *Buxus suffruticosa*, or *Buxus sempervirens* variety *suffruticosa*. In this case both the scientific and the common name are changed, and in addition there is the added confusion of a list of clones all under *Buxus sempervirens*.

The use of the name *rhododendron* for the generic name of the plants that we know as azaleas probably never will reach any widespread use. In fact, "Standardized Plant Names" acknowledges that it is better to list them only under the common name of azalea. All the catalogs that I have seen still insist on coupling the scientific specific names of these to the generic name azalea.

Perhaps one of the reasons nurserymen find it difficult to use "Standardized Plant Names" is the lack of good examples of the use of these names in catalogs. A voluntary committee within the American Association of Nurserymen might help in editing catalogs to smooth out the many inconsistencies that still exist.

As the preface of "Standardized Plant Names" points out, there is a twin evil to the lack of a standardized name. It is the improper identification of the plants we sell, both industry-wide among the commoner sorts of plants and individually among the rarer plants. All of us are guilty of misnaming a few plants, usually innocently because we accept at face value the name given to a plant when we obtain it. Perhaps the seller has repeated a previous error.

Within the past year it was pointed out to us that we were selling *Magnolia tripetala* for *Magnolia macrophylla* and *Ilex ciliospinosa* for *Ilex fargesii*. Unless we check all of our plants with the manuals and encyclopedias we cannot be sure. Some of us are so minded; others are not.

Here, again, a voluntary committee or regional committees composed of botanists and arboretum officials could render a valuable service in checking our plant identifications somewhat on the order of the work done by the fruit tree checking service. Inspections as infrequent as every five years would be sufficient.

E. S. H.

PROPRIETOR of the recently formed Jigg's Nursery, on one acre at 615 West Sixth street, Hattiesburg, Miss., is W. D. Holloway.

RECENTLY started in the retail nursery business is H. Mischka, owner of Hidden Pond Nursery, Route 4, Burlington, Wis.

BOOKS FOR NURSERYMEN ON COST FINDING

The books described below offer a simple, standardized procedure by which to determine costs of all operations of a nursery business. Formulas presented for arriving at production and sales costs and for determining minimum selling rate. Illustrated by tables and charts clearly estimating each cost.

For the wholesale, retail and landscape nurseryman:

NURSERY COST FINDING
By John Surtees
\$7.50 per copy.

Gives explanation of costs and their uses, standardization, advantage of averages, inventories and selling for profit.

The plants grown in similar manner grouped and processes for each group enumerated and costs determined.

Gives production formulas for finding inventory costs in the ground, with and without overhead, and for writing up yearly inventory, arriving at total costs of production and minimum selling rate.

Chapter on planning by budget covers costs of nursery maintenance, landscaping labor, selling and sales, and administration.

System of keeping track of costs by blocks of stock for wholesaler.

For the landscape nurseryman and contractor:

LANDSCAPING MASTER UNITS
By John Surtees
* SERIES 2, FIRST SECTION
\$3.00 per copy.

A guide for estimating landscape jobs according to value of stock, labor and overhead. Covers costs of all operations including digging, delivery, planting, excavation, grading, maintenance, etc., on both public and private jobs. Fifty charts and operations.

SERIES 3, SECOND SECTION
\$3.00 per copy.

Covers costs of planting a cemetery, moving large trees, planting hedges of various kinds, street tree planting, removing trees, bank erosion, soil treatment for lawns.

Complete tables and examples for estimating costs of each operation.

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A Very Good Investment — Scarce and in Great Demand

Koster Blue Spruce Grafts, 9 to 10 ins., out of 3-in. pots

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Grafts are thrifty. Satisfaction guaranteed. Shipments are made the latter part of May when well hardened off. Check with order, packing free. No shipment made for less than 25 unless 10 per cent is added for special packing. No C.O.D. unless 25 per cent of amount is sent with order.

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PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form. In graceful racemes for next spring's flowers. White Lily of the Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons. Each 2 to 4 ins., T. \$0.10
4 to 7 ins., T.15

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Rhododendron — Kalmia
Azalea

CURTIS NURSERIES

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HEMLOCK (*Tsuga Canadensis*)

Bushy, twice transplanted.

	Per 100	Per 1000
12 to 15 ins.	\$30.00	\$250.00
15 to 18 ins.	37.50	325.00
25 at 100 rate; 250 at 1000 rate.		

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Looks just like ordinary "brevifolia" dwarf yew, but grows about twice as fast.

Twice transplanted, bushy.

	Per 100
10 to 15 ins.	\$45.00

Cash, please. Packing free.

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Large plants, 5 ft. and up.

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An assortment of heavy stock
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A complete line of well grown hardy plant material
Evergreens and Lining-out Stock

LINING-OUT STOCK

If you have not received a copy
of our 1950 price list and are in-
terested, send for same.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

The **CHRYSANTHEMUM**
CATALOG you cannot afford
to be without.

WONDERLAND NURSERIES
Ellerson, Va.

OBITUARY**John F. Donaldson.**

John Frank Donaldson, 75, who was in the nursery business for forty years and was the owner of the Donaldson Nurseries, at Sparta and Warsaw, Ky., died March 26 at Booth hospital, Covington, Ky.

Born at London, England, October 6, 1875, he came to the United States when he was less than 8 years old and lived with relatives in Virginia for several years. He went to Warsaw in 1891 to work for E. K. Taliaferro & Bro. for \$10 a month, after which he went to work for the Storrs & Harrison Co., Painesville, O., for more training in the nursery business at the wage of \$1 a day.

After two years with this firm, Mr. Donaldson joined D. E. Gibson to establish a 4-acre nursery at Warsaw, the Willadean Nurseries. These grew to sixty acres, and, after buying out his partner, Mr. Donaldson moved the business to Sparta, Ky. Conveniently near a railroad there, the nursery was developed to over 100 acres.

Heavy losses were suffered through two floods, followed a short time later by a disastrous fire, which destroyed the storage house with a full load of salable stock for spring planting. There was no insurance with which to recover the loss of more than \$30,000.

Mr. Donaldson started again with practically nothing and developed his business to large proportions, growing mostly ornamental stock and small stock for transplanting. In 1919, he sold the nursery to the Berryhill Nursery Co., Harrisburg, Pa., which persuaded him to develop the Berryhill Nursery Co. at Springfield, O. In 1925, he returned to Warsaw to re-enter the business for himself and so started his third nursery firm.

There are no known survivors.

Frederic D. Osman.

Frederic D. Osman, 64, who served both as president and secretary of the New Jersey Association of Nurserymen and operated the New Brunswick Nurseries, New Brunswick, N. J., for twenty years, died April 7 at a hospital at Rahway, N. J., after a month's illness.

Born at Bristol, Pa., he moved to Philadelphia at the age of 10. After attending the University of Pennsylvania, he was employed by the Frank Seaman Advertising Agency, New York, as an art director.

PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude,
in the heart of the
ORIGINAL PENNSYLVANIA
PINE FORESTS

	Per 100	Per 1000
American Red Pine, 2-0, 2 to 4 ins.	\$4.00	\$30.00
Scotch Pine, 2-0, 2 to 4 ins.	2.00	15.00
Scotch Pine, very good, 2-yr., 4 to 6 ins.	3.00	25.00
Larch, 2-yr., 5 to 8 ins.	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.	2.00	15.00
Mugho Pine, 2-yr., Dwarf, Austrian	2.50	20.00
Mugho Pine, 3-yr., Dwarf, Austrian	3.50	30.00

All stock offered subject to prior sale. Five per cent discount on orders of 25,000 or more seedlings, one or more species.

EXCELLENT ROOT SYSTEMS STURDY PLANTS

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

SCHROTH'S NURSERY

Nursery: Pine Flats, Pa. INDIANA, PA.

ORNAMENTAL EVERGREENS**Trees & Shrubs****BAGATELLE NURSERY**

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CHINESE CHESTNUT TREES

Blight-resistant.

TREES—TRANSPLANTS—LINERS**THE GOLD CHESTNUT NURSERY**

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Trees, Evergreens, Shrubs Fruit Trees

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PINK DOGWOOD

1 1/2 ft., \$75.00 per 100

Please send cash, money order or check.

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SEWELL, N. J.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.

In 1915 he went to New Brunswick, N. J., where he operated his own business. In 1934 he became the superintendent of Dutch elm disease control for the United States Department of Agriculture and four years later was appointed as the Union county agricultural agent by the Rutgers University board of trustees. He was the first appointee to that post.

A resident of Westfield, N. J., he was a member of the Westfield and Elizabeth men's garden clubs and of the Elizabeth Rotary Club.

Surviving are his widow, Mrs. Vera Babcock Osman; a son, Frederic Osman, of Garwood, N. J., and a daughter, Miss Nancy Jane Osman, at home.

Charles S. Swayne.

Charles S. Swayne, owner of Swayne Landscape Nursery, Springfield, Pa., died at his home at Springfield, March 29, following a short illness. He was 79 years old.

For more than fifty years, Mr. Swayne had been in the nursery business in Canada and at Springfield. Since his return from Canada, he was a yearly exhibitor at the Philadelphia flower show. His landscape arrangements won several first prizes.

In addition to his widow, he is survived by two daughters.

Robert C. Long.

Robert C. Long, of the Coast Agricultural Fertilizer Co., Pasadena, Calif., and formerly associated with Long's Camellia Gardens, also at Pasadena, died March 25 in a hospital at Newhall from injuries suffered in an automobile crash.

Survivors include his widow, Helen, and two children, John Henry and Barbara Elizabeth.

AWARD TO S. H. THRASHER.

Samuel H. Thrasher, Greenbrier Farms, Norfolk, Va., was awarded a certificate of merit by the horticulture club of Virginia Polytechnic Institute, Blacksburg, in recognition of contributions to the advancement of horticulture in Virginia. The award was made March 31 at the annual banquet, attended by Mr. and Mrs. Thrasher, at the institute's faculty dining hall.

With his brothers, Mr. Thrasher has succeeded in turning an extensive swampland into a productive nursery. The Greenbrier Farms at present contain approximately 125 miles of roadways and more than 400 miles of drainage ditches that aid in reclaiming land.

BERRY PLANTS

	Per 100	Per 1000
Cumberland Raspberry, No. 1.....	\$3.75	\$30.00
Latham Red Raspberry, No. 1.....	6.00	50.00
Thornless Boysenberry, No. 1.....	4.50	40.00

NOTE: Write for special prices on Cumberland Raspberry and Boysenberry in lots of 2500 or more.

BLUEBERRIES

	Each	Per 10	Per 100
3-yr., 12 to 18 ins.....	\$0.75	\$6.50	\$60.00
4-yr., 18 to 24 ins.....	.95	8.50	75.00

Cabot, Concord, Jersey, Rubel, Rancocas.

STRAWBERRIES

	Per 100	Per 1000
Blakemore	\$1.00	\$ 8.00
New Robinson	1.25	10.00
Superfection Everbearing	3.25	25.00
Streamliner Everbearing	3.00	22.50

NOTE: See February 15 issue of the American Nurseryman for following items:
Nut Trees Boxwood, Sempervirens Grape Myrtle

Write for prices on Globe Arborvitae, Juniperus Virginiana, Taxus, Rhododendron, Kalmia, Pyracantha, American Linden and other items not offered in our ad in the February 15 American Nurseryman or this issue.

WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

NORTHERN-GROWN LINING-OUT STOCK

	Per 100	Per 1000
<i>Betula papyrifera</i>		
1 to 2 ft.....	\$ 6.00	\$50.00
2 to 3 ft.....	8.00	70.00
3 to 4 ft.....	25.00	
4 to 6 ft.....	40.00	
<i>Clethra alnifolia</i>		
6 to 18 ins.....	6.00	50.00
18 to 24 ins.....	8.00	70.00
<i>Ilex verticillata</i>		
1 to 2 ft.....	6.00	50.00
<i>Syringa vulgaris</i>		
1 to 2 ft.....	6.00	50.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.....	6.00	50.00
<i>Viburnum dentatum</i>		
6 to 12 ins.....	5.00	40.00
1 to 2 ft.....	6.00	50.00

EVERGREENS

<i>Abies balsamea</i>		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	8.00	60.00
<i>Thuja occidentalis</i>		
6 to 9 ins.....	4.00	25.00
6 to 12 ins.....	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

P. O. Box 352
Exeter, New Hampshire

LINERS

See our display and classified ads in the April 15 issue.

JOHN VERMEULEN & SON, Inc.

NESHANIC STATION, N. J.

ROSA MULTIFLORA JAPONICA

Thorny Type; ideal for fences.

Orders taken for Fall, 1950, and Spring, 1951.

BROOKVILLE NURSERIES
GLEN HEAD, N. Y.

HARDY NEW ENGLAND-GROWN SHRUBS

For immediate or later shipment.

	Each
3000 <i>Kolkwitzia</i> , 18 to 24 ins.....	\$0.40
400 <i>Kolkwitzia</i> , 2 to 3 ft.....	.50
400 <i>Philadelphus Albatre</i> , 3 to 4 ft.....	.50
300 <i>Philadelphus virg.</i> , 18 to 24 ins.....	.35
700 <i>Philadelphus virg.</i> , 2 to 3 ft.....	.45
1200 <i>Philadelphus virg.</i> , 3 to 4 ft.....	.60
400 <i>Prunus gland.</i> , pk., own-root, 2 to 3 ft.....	.50
150 <i>Prunus gland.</i> , pk., own-root, 3 to 4 ft.....	.70
500 <i>Spiraea froebeli</i> , 18 to 24 ins.....	.35
300 <i>Physocarpus opulifolius</i> nanus, 3 to 4 ft.....	.45
500 <i>Spiraea vanhouttei</i> , 3 to 4 ft.....	.45

ADAMS NURSERY, Inc.

WESTFIELD, MASS.

EVERGREENS

Seedlings and Transplants

Spring, 1950

Write for price list.

SUNCREST EVERGREEN NURSERIES
JOHNSTOWN, PA.

GRAFTED STOCK—FIRST-QUALITY

This material in 2½-in. rose pots.
Acer palmatum atropurpureum (Bloodgood); *Cornus florida rubra*.
Write for prices.

JOHN VERMULLEN

R. D. 2 BRIDGETON, N. J.

Unusual Plants for the Midwest

By August P. Beilmann

The hot, dry summers and the cold, equally dry winters of the midwestern plains require plants of special hardiness. But the list need not be too limited. Following are discussed some plants which are not so well known in the midwest or available in such quantity as they should be.

The first one is the hardy orange, *Poncirus trifoliata*, which blooms before March and has flowers that rival the famed orange blossoms of the Gulf coast. The plant appears perfectly hardy, but needs a little protection from the cold winds of early spring. It begins to flower when 8 years old and carries a mass of fruit resembling lemons, except for size and edibility.

Then there is a small sand pear, *Pyrus calleryana*, which has the whitest flowers of all woody plants blooming in early spring. It blooms about a month before the domestic fruits and remains in flower much longer. It is altogether hardy and should be widely used.

A close rival is the Manchurian apricot, *Prunus mandschurica*, a small tree, which, in my opinion, has no faults and which blooms a few weeks before the crab apples. Usually it has a mass of clear pink flowers, which are not injured by late frosts and cold nights. The autumnal coloration is almost as outstanding as the early flowers of spring. You may use this tree in any exposure. It will not sucker nor grow out of bounds.

A particular favorite of mine is the Korean azalea, *Rhododendron mucronulatum*, which opens its pale lavender flowers at the same time that the forsythia does. The two plants make a remarkable picture so early in the season, and the Korean azalea is hardy, although it needs a heavy mulch during a hot, dry summer. Do not overlook the redbuds, and especially that paradox, the white redbud. Both the red and the white forms can be planted in a border to create an attractive picture for a week in early spring. Both forms are hardy; the white is budded on normal seedlings and begins to flower immediately, becoming lovelier each year.

The Chinese magnolia, *Magnolia sinensis*, and the varieties should not

be forgotten. Plant them out of the wind and keep them growing during the dry part of the summer. Use some of the daffodils near by to heighten their color. The varieties King Alfred and Emperor flower at the same time.

The spring-flowering trees cannot be dismissed without a word about the crab apples, but at Gray Summit we can use only the dependable Asiatic species and varieties. In eastern Missouri these bloom about April 20 and give the wonderful display you see there almost each year. The native crab apples are unsuited to our territory because of cedar-apple rust.

Since we are always in need of flowering trees after the spring bloom, I suggest the use of the Japanese pagoda tree, *Sophora japonica*, which flowers for two weeks in early June. When grown from seeds it grows a foot higher each year and blooms when 12 years old. It is perfectly hardy and needs no special protec-

tion. The albizzia, *A. julibrissin rosea*, belongs to those trees that bloom during the hottest parts of the year, during July and August, when most of the middle west is burned brown.

Another plant which produces flowers in late July and interesting flowers in the fall is the small semi-evergreen shrub, spreading euonymus, *E. kiautschovicus*, which also has been called *E. patens*. It should do well, since it is both winter and summer hardy.

Perhaps you have used the evergreen barberry; if you have not, try it; it has been perfectly satisfactory at the Missouri Botanical Garden and has proved acceptable in a foundation planting. With it use both the threespine barberry, *Berberis triacanthophora*, and the warty barberry, *B. verruculosa*. These three species are interesting and hardy, and a more general use of them should add much interest to landscape plantings.

We cannot pass up the evergreen

The Homestead Nurseries H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials—Quality Stock in All Leading Varieties. Trade catalog on request.

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Shrubs and Trees,
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Rhododendrons and Azaleas
Hardy Perennials
Peonies

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"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color).....\$29.00
30 MEDIUM 2-bu. BAGS (2 color)..... 24.00
10 Large Standard Bales, each..... 4.00

Ask for delivered carload prices on:

STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.

August P. Beilmann is manager of the arboretum, at Gray Summit, Mo., of the Missouri Botanical Garden.

shrubs without calling attention to boxwood and especially to the Korean box, *Buxus microphylla koreana*. Although this boxwood does not have all the classical characteristics of the English box, it will stand the dry, hot summers and cold, equally dry winters of the midwest without damage. During the thirteen years we have tested it at Gray Summit, it has not been injured by heat or cold. You also might try the English box, *B. sempervirens*. We have found certain strains especially hardy, provided they enter the winter with sufficient water; they must not be allowed to suffer from lack of water. Our extensive collection of boxwoods is now planted behind a serpentine wall, where all our varieties, species and hybrids will be subjected to a severe test. In time, I believe we shall have boxwood of the classical type which will be hardy here, but, in the meantime, try the Korean box. It has all the qualities needed to succeed in the middle west.

In spite of the trouble being experienced with phloem necrosis of elms, I suggest that you use a few Chinese elms, *Ulmus parvifolia*, not *Ulmus pumila*. So far as I know, this species has not been injured by phloem necrosis. It is a small, slow-growing species, flowering in August and September and ripening seeds just before frost. As a lawn tree it will prove satisfactory, interesting and without bad habits.

In some of the more sheltered locations I believe you would succeed with the Canada hemlock, *Tsuga canadensis*. At least we have found that it will grow well if protected from the worst of the summer winds. Grow it under a heavy mulch; the fine, graceful foliage of the mature plant will repay any special care.

There is another tree, a deciduous conifer, the bald cypress, *Taxodium distichum*, which should be used as a street and lawn tree. Though it is native to the swamps, it is adaptable and will grow in a dry location almost as well. It is not susceptible to insect pests, is perfectly hardy and grows to from eighteen to twenty-four inches in height each year after becoming established. It can be fitted easily into almost any landscape plan and should be used oftener.

Of course, in the middle west we cannot fail to use the junipers. Few evergreens do as well, and none requires less care. The Pfitzer juniper, *Juniperus pfitzeriana*, is widely used and completely satisfactory, but there are others, such as the blue and silver forms of *J. scopulorum*, which

SPRING, 1950, WHOLESALE PRICE LIST

Rooted Evergreen Cuttings

FIELD FRAMES		POTS—Continued	
	Per 100		Per 100
<i>Juniperus Hetzi Glauca</i>		<i>Taxus Media Hicksi</i>	
475 8 to 10 ins., 3-yr.	\$27.50	2100 6 to 8 ins., pots.	\$25.00
1000 8 to 10 ins., 2-yr.	25.00	500 8 to 10 ins., pots.	27.50
<i>Juniperus Hor. Pl. (Andorra)</i>		<i>Juniperus Chin. Pfitzeriana</i>	
2000 8 to 10 ins., 2-yr.	20.00	250 6 to 8 ins., pots.	20.00
<i>Thuja Occ. Globosa</i>		200 dwarf, pots.	30.00
1000 6 to 8 ins., 3-yr.	22.50	<i>Euonymus Vegetus Coloratus</i>	
1800 6 to 8 ins., 2-yr.	20.00	2000 9 to 12 ins., 2-in. pots.	20.00
<i>Thuja Occ. Pyramidalis</i>		<i>Pachysandra Terminalis</i>	
1000 6 to 8 ins., 2-yr.	22.50	1000 6 to 9 ins., 2-in. pots.	17.00
POTS		PACKING FREE	
	Per 100	Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.	
<i>Juniperus Hetzi Glauca</i>		An order for 25 of the same variety and size sold at the 100 rate.	
1800 6 to 8 ins., pots.	\$25.00	Minimum order, 100 plants.	
<i>Juniperus Hor. Pl. (Andorra)</i>		We would welcome your inspection.	
2100 6 to 8 ins., pots.	20.00	Location is 18 miles west of Chicago on Alternate U. S. 30.	
<i>Taxus Cuspidata</i>			
1000 6 to 8 ins., pots.	25.00		
1400 4 to 6 ins., pots.	22.50		
<i>Taxus Capitata</i>			
600 6 to 8 ins., pots.	25.00		

ELMHURST NURSERIES, Inc.

York and Roosevelt Roads Phone: 5686 ELMHURST, ILL.

LINING-OUT SPECIALS

	Per 100	Per 1000
RED-BERRIED ELDER (<i>Sambucus Pubens</i>)		
1-yr., 6 to 9 ins.	\$3.00	\$25.00
1-yr., 9 to 12 ins.	4.00	35.00
SORBUS AMERICANA (Am. Mountain Ash)		
1-yr., 6 to 9 ins.	7.00	65.00
1-yr., 9 to 12 ins.	8.00	75.00
AMELANCHIER CANADENSIS (Juneberry)		
1-yr., 4 to 6 ins.	4.50	40.00
PRUNUS VIRGINIANA (Chokecherry)		
1-yr., 4 to 6 ins.	3.00	25.00

EVERGREEN NURSERY CO.

Established 1864 STURGEON BAY, WIS.

Write for complete lining-out list.

MAGNOLIA SOULANGEANA

OWN-ROOT PLANTS

	Per 10	Per 100
3 to 4 feet, B&B.	\$62.50	\$575.00
4 to 5 feet, B&B.	75.00	700.00

BRYANT'S NURSERIES

Arthur Bryant & Son
PRINCETON, ILLINOIS

SPELL PLANT NAMES CORRECTLY AND PRONOUNCE THEM RIGHT

Keep in your pocket or on your desk a copy of the **PRONOUNCING DICTIONARY** of Plant Names. This booklet, 4x6 inches in size, contains a list of plant names and botanical terms, with the correct pronunciation of each.

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Growers at Wholesale
of a General Line of
Hardy Northern Stock.

Write for Price List.

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THUJA OCCIDENTALIS COMPACTA ERECTA (NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

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WESTMINSTER, MD.

FOR 52 YEARS

*Our business has been
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Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items

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Freeport Rd. BUTLER, PA.

HYBRID RHODODENDRONS - AZALEAS OUR SPECIALTY

Price list available on request.

HICKORY HILL NURSERY
Route 25 A, Fort Salonga
NORTHPORT, L. I., N. Y.

have a definite place in our planting. Schott's juniper, *J. schottii*, which is heavily loaded with fruit, and two forms of Chinese junipers can be used in many places, their only requirement being room enough to grow.

The eastern white pine, *Pinus strobus*, is always considered a tree of the cool north woods. In Paul Bunyan's day perhaps it was, but at the Missouri Botanical Garden we find that it is the fastest-growing pine of all those we have ever grown. It will stand the heat of the Missouri summers, and few trees have more grace or lovelier foliage when young.

E. S. WELCH INJURED.

E. S. Welch, president of the Mount Arbor Nurseries, Shenandoah, Ia., was injured in an automobile accident April 1. The car which he was driving went out of control and collided with a tree in front of his home. While Mr. Welch suffered three broken ribs, doctors could detect no other injuries. He has been resting comfortably and is expected to be recovered in a few weeks.

CHANGES AT ELMHURST.

During March Elmhurst Nurseries, Inc., on York and Roosevelt roads, Elmhurst, Ill., underwent reorganization; the capital investment was increased, and new officers were elected. Formerly manager, Emil A. Martens is now president of the firm.

Ledgers and other business records were destroyed in a recent fire, but Mr. Martens says that the firm has obtained sufficient information to reconstruct most of these records.

Ted Smith, who was president of Elmhurst Nurseries, Inc., prior to the reorganization, is no longer connected with the firm. He is continuing his own business as landscape architect and tree surgeon on York road, Elmhurst, Ill., which he established in 1931.

OLD WISCONSIN NURSERY SOLD TO MACEMON.

The newly incorporated Macemon Nurseries, Inc., managed by Charles Macemon, has purchased Coe, Converse & Edwards Co., Fort Atkinson, Wis. The nursery will continue under the same name at the same location on Highway 12.

President of the firm is Charles Macemon, who holds that same office in Macemon's, Inc., a nursery and landscape firm at Racine, Wis. He is the fourth generation in the nursery business and has four sons who will continue to operate the Racine nurs-

WE HAVE IN QUANTITY

Apple, 2 and 3-yr.
Pear, 2 and 3-yr.
Cherry, 1 and 2-yr.
Plum, 1 and 2-yr.
Apricot, 1 and 2-yr.
Peach, 1-yr.

Thurlo Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; *Juniperus columnaris*, glauca, keteleeri, Hill's Dundee, up to 3 1/2 to 4 ft. Pfitzer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

C. M. HOBBS & SONS, Inc.

Phone: Indianapolis, Belmont 1812
BRIDGEPORT, IND.

LAKE'S

SHENANDOAH NURSERIES

Shenandoah, Iowa.

*Wholesale growers of
a fine assortment of*

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES
St. Paul 6, Minn.

PLEASE SEND YOUR CATALOG

We are landscape contractors and annually use thousands of trees and plants.

Let's get acquainted.

FAULK-WHITE CO., Inc.
ALBERTSON, L. I., N. Y.

Ornamental Nursery Stock

Wholesale Only

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, PA.

cry. Mr. Macemon's great-grandfather was a gardener in Holland and, after coming to the United States, was engaged in the nursery business at Winona, Minn., until moving to Racine twenty-five years ago.

Other officers of Coe, Converse & Edwards Co. nursery are H. W. Riggert, the vice-president, who was president before the recent purchase by Macemon Nurseries, Inc.; Ernest J. Wendt, secretary, and Doris Riggert, treasurer. Doris Edwards Riggert, who is H. W. Riggert's wife, is the third generation of her family in Coe, Converse & Edwards Co., which was established in 1875 and was the first licensed nursery in Wisconsin.

SEE NORTHERN MARKET FOR TENDER PLANTS.

Although gardenias are not normally at home in northern climates, many nurserymen are discovering new markets in the northern states because the plants are cheap and easy to sell. Compared with a gardenia corsage, which will not last much beyond one evening, a whole plant that will bloom in the yard all summer and sells for about the same price seems comparatively inexpensive.

Among the southern growers who are increasing their sales by extending the sales area of what was once regarded as a regional item is the Verhalen Nursery Co., Scottsville, Tex., which reports that hibiscus is also being shipped north, though on a smaller scale.

Both plants are not expected to stand the northern winters, and the customer is warned that the plants are not hardy and must be replaced every spring.

JEWELL LADIES BOWL.

The ladies' bowling team sponsored by the Jewell Nurseries, Inc., Lake City, Minn., recently became champions of the Lake City league. Mrs. Vernie E. Johnson, wife of the vice-president of the nurseries, is captain of the team.

The champion bowlers have been entered in the International Bowling Congress at St. Paul, where they will compete with teams from thirty-seven states and Canada.

NEW to the trade are F. F. Walters Gardens, on Route 1, North Manchester, Ind. Lilies are the specialty.

ANOTHER new nursery is that recently organized by J. J. and R. C. Schneider, Lewis road, Route 1, Olmsted Falls, O.

ROSES OREGON-GROWN DELIVERY from ILLINOIS

We still have available a good selection for your late orders. Strong, well graded plants grown in the Portland area, low-budded on Multiflora Japonica, they are quality stock.

	Per 10	Per 100	Per 1000
2-year, No. 1.....	\$5.50	\$50.00	\$45.00

RED SHADES

Ami Quinard
Glowing Carmine
Grass an Teplitz
Red Radiance

PINK SHADES

Betty Uprichard
Dame Edith Helen
Edith Nellie Perkins
Editor McFarland
Mrs. Charles Bell
Picture
Radiance

HYBRID TEA ROSES

YELLOW SHADES

Joanna Hill
Mrs. E. P. Thom
Mrs. Pierre S. du Pont
Sister Therese
(Soeur Therese)
Souv. de Claudius Pernet
Ville de Paris

TWO-TONE SHADES

Autumn
Condessa de Santiago
Duquesa de Penaranda
Edith Nellie Perkins
Heinrich Wentland
Mme. Joseph Perraud
President Herbert Hoover

WHITE SHADES

Kaiserin Auguste Viktoria

BRYANT'S NURSERIES

Arthur Bryant & Son

PRINCETON, ILL.

100 Beautiful, Heavy GREEK JUNIPERS

Cut back 2 years ago.

30 to 36 ins. tall, 30 to 36 ins. wide.

B & B, F. O. B. Nursery, \$4.00 each.

ANDERSEN'S EVERGREEN NURSERY

SCOTTVILLE, MICH.

NORTHERN-GROWN EVERGREENS

SPRUCE - JUNIPER

TAXUS - ARBORVITAE

Write for list.

BROWN DEER NURSERIES

P. O. Box 1747

Milwaukee 1, Wis.

"True Varieties" Is Not a Boast... It's A HABIT! ROSEBUSHES

Licensed Grower,
All-America
Introductions.

Refrigeration.

AVOID HEELYARD HAVOC.

ARP

NURSERY CO.

TYLER, TEXAS

PECAN TREES

WALNUT, FIG

PERSIMMON

Wholesale Catalog.

GET YOURS FIELD-FRESH AND FREEZE-FREE.

FOR PROMPT ACTION

Send us your Surplus List.

GROWERS EXCHANGE, Inc.

P. O. Box 264

FARMINGTON, MICH.

BURTON'S

HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.
BARE ITEMS YOU DO NOT
FIND IN MOST LISTS! Write!

HILLTOP NURSERIES

EASTOWN, OHIO

Indiana Meetings

ST. JOE VALLEY GROUP DISCUSSES LIEN LAW.

The lien law amendment was the main topic of discussion at the March 17 meeting of the St. Joe Valley Nurserymen's Association, held at Schuell Nurseries, South Bend, Ind. The group went on record as urging both the legislative committee of the state association and the various members of the state legislature to correct the omission of nurserymen from the protection afforded other crafts from losing their materials and services when put on the premises of another.

President Clifford Rice, Clifford Rice Nurseries, South Bend, reported a conference with Thomas Bath, in which he found out that the present lien law was enacted in 1909 when there were no landscape men or nurserymen affected by it. The law has been amended twelve times to provide protection for that many different kinds of artisans and craftsmen, and the addition of the single word nurserymen would protect this group also.

Since it is not a partisan issue and since its only purpose is to afford nurserymen legal protection, the group could not see anything to prevent passage of the amendment once it is placed before the legislature.

NORTH CENTRAL INDIANA HOLDS DINNER MEETING.

The North Central Indiana Nurserymen's Association met March 7 at the Price Nurseries, Plymouth, for a meeting preceded by a chicken dinner at the home of Mrs. John Douglas. Hosts to the group were Mr. and Mrs. Ray Price and Mr. and Mrs. Lowell Moore.

J. G. McAllister, district state forester, outlined the duties of the ten district foresters in the state. He also gave some information on the oak wilt situation, but pointed out that little research had been done and, consequently, little is known about this fungus disease.

Palmer Mart, teacher of botany at Lincoln high school and one of the state nursery inspectors, told of his observations of oak wilt, stating that one native planting of pin oaks had been killed southwest of Argos. He told the nurserymen that trees in the black oak group are more susceptible to oak wilt than those in the white oak group. In his opinion, it is advis-

able to continue using oaks in landscape plantings unless they are in close proximity to native oak groves.

C. J. Moldenhauer, Huntington, suggested that the state nurserymen's association be represented by a suitable display in the Horticultural building during the state fair each year.

A resolution was presented by Robert C. Hoffman, Hoffman's Nursery, Wabash, to give support to a resolution previously adopted at the winter meeting of the Indiana Association of Nurserymen which made provision for an appropriation to carry on research on virus diseases of stone fruits. The signing of the resolution by the group was deemed important in adding weight to the legislative program of the state association.

Lowell Moore raised the question as to whether institutions were justified in expecting a wholesale price on nursery stock, for certain wholesale nurseries in other states have made it impossible for the retail nurseryman to compete by selling to institutions at wholesale. The group decided that institutions deserve a quantity price, rather than a wholesale price. The matter will be brought up at the summer meeting of the state association, where, if the membership concurs, the matter can be carried to the

American Association of Nurserymen.

Ideas were given on composing a suitable form letter to follow up completed landscape work. Many good ideas that are useful to the nursery business can be gleaned from the large volume of advertising received in the office, if it can be intercepted on its way from the desks to the wastebasket, it was decided.

INDIANAPOLIS LANDSCAPE ASSOCIATION MEETING.

About thirty-five members and guests were present at the regular meeting of the Indianapolis Landscape Association held April 6 at the Thirty-eighth Street branch of the Indiana National bank, Indianapolis, Ind., to hear Marshall Abrams, president of the Construction League, vividly describe "The Miracle of the Orient," his personal account of the occupation of Japan by the United States armed forces. Mr. Abrams, who is a skillful speaker, served on the staff of Gen. Douglas MacArthur.

A report on the activities of the yard parks committee was given by

POTTED TAXUS

1 and 2-yr., in frames.

Most varieties.

\$20.00 per 100

\$180.00 per 1000

THE COTTAGE GARDENS

N. I. W. Kriek

LANSING 15, MICH.

HEMLOCKS

Specimen stock transplanted 4 and 5 times. Sheared and open styles. In large truckload lots. Select them yourselves. 3, 3 1/2, 4 and 4 1/2-ft. sizes. We grow the finest. Write for full particulars. Discounts on quantity orders.

We have *Taxus hicksii* and *Taxus capitata*.

SUNNYVIEW NURSERIES

George Colmorgen, Prop.

Rt. 84, Lake Co. PERRY, OHIO

JUNIPERUS PFITZERIANA

Per 100 Per 1000

2 1/4-in. pots ... \$22.50 \$200.00

Rooted cuttings 10.00 95.00

THE HENRY NURSERIES

Ingels Bros.

HENRY, ILL.

MUGHO PINES

4, 5, 6-ft. spread; 2 to 2 1/2-ft. height. State-inspected, good color, transplant well.

\$4.50 each in the ground.

DUTCH LUCK FORTY NURSERY

Phone: Melford 24-F-15

Route 2 MELFORD, MICH.

THE NURSERY MANUAL

By L. H. Bailey

Describes methods of propagation and lists plants with practice for each.

470 pages.

Price, \$5.00

AMERICAN NURSERYMAN

343 So. Dearborn St. Chicago 4, Ill.



Wholesale growers of the best

Ornamental Evergreens,

Deciduous Trees

Shrubs and Roses

Write for our current trade list.

THE KALLAY BROTHERS CO.
Painesville, Ohio

Noble Hollister, a member of the Indianapolis city planning commission and the coordinating chairman for yard parks. This year there will be a city-wide yard cleanup and improvement campaign. Prizes of nursery stock and gardening equipment will be given for the best kept yards. The movement has the active cooperation of the Indianapolis Star, the garden clubs and the Indianapolis Landscape Association. Appointed as a committee to help in this activity are Henry Schnitzius, Mike Engledow and Clifford Arbuckle.

Hillsdale Nursery Co. plans a bigger rose festival for June 18 than ever before. Alex Tuschinsky has replanted all his rose beds and takes pride in the fact that he has the largest collection of rose varieties in that part of Indiana. This rose festival has grown from a stunt to sell roses until it is now a community project supported by the garden clubs, the Indianapolis Landscape Association, the mayor of Indianapolis and the governor of Indiana. A committee appointed to work with Mr. Tuschinsky consists of Garnet Hill, David Burkhardt and A. M. Rust.

The meeting adjourned with a light luncheon served by Mrs. David Burkhardt, Mrs. James Maschmeyer and Mrs. Mike Engledow.

James A. Maschmeyer, Pres.

A. A. N. WASHINGTON TOURS.

[Continued from page 11.]

planting ceremony will be held there Thursday afternoon to commemorate the association's seventy-five years of service and the fact that it was the original sponsor of the legislation providing for the arboretum.

An all-day trip, Friday, July 21, will give the nurserymen and others interested in experimental work a chance to inspect the Beltsville, Md., experimental station and the plant introduction station at Glenn Dale, Md.

Williamsburg Tour.

The Maryland and Virginia associations of nurserymen are cohosts for the postconvention trip to Colonial Williamsburg, Jamestown and Yorktown, July 21 to 23. This trip is not to be confused with a preconvention tour to the colonial town planned by the National Landscape Nurserymen's Association for its members, July 14 to 16.

The A. A. N. group, which is limited to 150 persons, will leave Washington Friday at 8:30 a. m., traveling by de luxe motor coaches through the historic Virginia countryside to Richmond. There the sightseers will stop for lunch and a brief



HARDY FERNS

Commonly called Large Leaf or Ostrich Plume.

Perennial in nature and perfectly hardy. Ideal for planting in moist, cool places. Grows 2 to 4 ft. annually. Can ship same day order is received.

No. 1 Roots

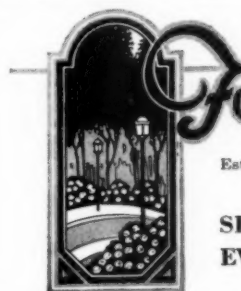
\$11.00 per 100; \$90.00 per 1000.

EVERGREEN NURSERY CO.

Established 1894

STURGEON BAY, WIS.

Write for complete list.



J. R. Boyd, President John T. Boyd, Vice-president
H. B. Stubblefield, Supt.

FOREST NURSERY CO.

McMinnville, Tenn.

Established 1887

Long Distance Phone No. 234

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**SHRUBS, FOREST and SHADE TREES,
EVERGREENS, VINES and CREEPERS**

Trade list mailed on request.

SPECIMEN LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.

Cincinnati 29, Ohio

LINING-OUT LIST

of items for fall, 1950, shipment will be ready August 1. If you haven't bought from us during the past three years and would like to receive this list, please write us.

NEWPORT NURSERY CO. Newport, Mich.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.
Leading Perennial Growers
HOLLAND, MICH.

AMERICA'S BEST SOURCE

FOR
HARDY PLANTS

WRITE FOR
TRADE LIST

MENTOR,
OHIO

Wayside



Gardens

*Let SHERMAN'S supply
your needs in...*

Apple Trees
Plum Trees
Cherries
Small Fruits
Ornamental Shrubs
Shade Trees
Phlox
Roses
Perennials

Write for quantity prices on the above.

SHERMAN NURSERY CO.
CHARLES CITY, IOWA

We wish to purchase...

Evergreens, Fruit Trees,
Shrubs, etc.

Send your surplus list to

THE PONTIAC NURSERY CO. Romeo, Mich.

50,000 DAHLIA ROOTS

We grow many acres of standard cut flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS
ROUTE 5 KANSAS CITY 3, KAN.



PEONIES • IRISES • BULBS

DAY LILIES • POPPIES

ALL YOUNG GROWN STOCK.

Prompt Service.

Send for Wholesale Prices.

C. F. WASSENBERG
VAN WERT, OHIO

BOOKS ON LANDSCAPE SUBJECTS

NEW DESIGN OF SMALL PROPERTIES, by M. E. Bottomley (\$3.75).

Each type of design—the formal, informal, odd lots and modern—treated separately and illustrated with typical layout plans, adapted to small property limitations. Also, chapters on garden design and planting composition. 174 pages, illustrated.

PLANTING DESIGN, by Florence Bell Robinson (\$3.00).

The most up-to-date book of its kind. A practical discussion of the various factors of design and their application, such as color and its use, texture, art of design, groupings and arrangements; ecological factors, such as soil, climate, light and drainage; designing plantings around buildings and public plantings. 215 pages, illustrated.

PALETTE OF PLANTS, by Florence B. Robinson (\$3.00).

Sequel to "Planting Design." Chapters on plants in the landscape, trees, shrubs, conifers, grass, flowers, hybrids and exotics, roses, rock and water gardens, roof gardens, plantings for cemeteries. 214 pages, illustrated.

HOW TO BEAUTIFY AND IMPROVE YOUR HOME GROUNDS, by Henry B. Aul (\$3.50).

Provides plans, sketches, arrangements, terrace ideas, work and play centers, vegetable, flower, shrub and tree plantings. Modern ideas. 155 plans, drawings and illustrations. 320 pages.

DESIGNS FOR OUTDOOR LIVING, by Margaret O. Goldsmith (\$5.00).

Source book for landscape designers and homeowners. Explains how home property can be made comfortable and livable as well as attractive. Gives plans and suggestions for outdoor living rooms, entrances, recreational areas, outdoor dining areas, pools, etc. Illustrated with over 250 photographs and plans. 358 pages.

65 PRACTICAL GARDEN PLANS, by John Elliott (\$1.00).

Plans for suburban, country and city homes, including crowded areas in large cities, back yards, penthouses, outdoor living and dining rooms, etc. A wide range of plans applicable to many conditions and situations. 48 pages, paper bound.

LANDSCAPING MASTER UNITS, by John Surtees. 2 books. (Each, \$3.00; both for \$6.00).

Textbooks of costs of landscaping. Series 2, 70 pages, covers loosening soils, delivery, planting, excavation, digging, lawns, grading, maintenance, overhead and profit. Series 3, 91 pages, covers large tree moving, cemetery plots, hedges, street tree planting, soils, drainage, waste and bank erosion.

These books and others on horticultural subjects are available at the publishers' price through the

AMERICAN NURSERYMAN

343 S. Dearborn St.
Chicago 4, Ill.

tour of the Virginia capital through the courtesy of the Virginia Nurserymen's Association.

Arriving at their destination in the late afternoon, the guests will have time to claim their reservations at either the Williamsburg Inn or the Williamsburg Lodge before dinner, after which Kodachrome slides and a lecture will be given on the historical background of Williamsburg.

Restored as it was in pre-Revolutionary War days, the town should be of special interest to nurserymen on account of the unique beauty of its colonial gardens as well as for its historical significance. Special hostesses dressed in colonial costume accompany the guests as guides to explain the colonial capital.

The group will spend Saturday morning visiting the capitol building, the governor's palace with its beautiful gardens, the Wythe house, Burton's Raleigh tavern, the Ludwell-Paradise house and the public jail. Nothing has been planned for the afternoon so as to allow time for relaxing or for shopping at the university town of William and Mary.

A reception at 4:30 Friday afternoon has been arranged by the Virginia Nurserymen's Association. That evening, the group will go to Matoaka lake, a 15-minute drive from Williamsburg, where the drama "Common Glory" will be presented at the amphitheater.

The first permanent English settlement in North America, Jamestown, will be visited by the group on Sunday morning, to see the historic sites and the archaeological museum on the shores of the James river.

Traveling next to the historically famous Yorktown, the group will be escorted to points of interest by a representative of the national park service. A reproduction of one of the frigates of Revolutionary War fame as well as the battlegrounds and monuments will be seen. The old house where the actual surrender terms were drawn up, the French and American trenches and the British fortifications on the edge of "No Man's Land" will also be visited. The return to Williamsburg will be over the new colonial highway overlooking the Chesapeake bay.

After lunch on Sunday, the group will return to Washington, D. C., at 2:30 p. m.

AFTER completing a course in horticulture two years ago, Vincent Lo Giudice joined with his father to form the nursery and landscaping firm of John Lo Giudice & Sons, 94 Locust avenue, Scarsdale, N. Y.

ROSES — Last Call

2-yr., Field-grown, Budded

Red Radiance	President Hoover
Poinsettia	Talman, reg.
Red Talisman	Golden Ophelia
Red Columbia	Golden Dawn
Pink Radiance	Sunburst
Editor McFarland	Yellow Talisman
Pink Columbia	Golden Charm

CLIMBING ROSES

Paul's Scarlet	Red Radiance
	Cl. Talisman
Prices on No. 1 plants. Each	
On 500 lots.....	\$0.40
On 100 lots.....	.50
Sold on usual terms, conditions.	



**OZARKS PLANT
FARMS, Inc.**
R.F.D. No. 3 **SPRINGFIELD, MO.**

LINEOUTS

	Per 100	Per 1000
Ligustrum Amurense, C.	\$2.00	\$17.50
Spiraea Vanhouttei, C.	3.00	25.00
Spiraea Callosa Rosea, C	2.50	20.00
Hydrangea Arborescens, C	6.00	50.00
Hydrangea P. G., C.	8.00
Cydonia Japonica (red), C	6.00
Acer Dasycarpum, S.	3.00	25.00
Acer Rubrum, S.	4.00	35.00
Cercis Canadensis, S.	3.50	30.00
Liriodendron Tulipifera, S	2.50	20.00
Albizia Julibrissin, S.	4.00	35.00
Calycanthus Florida, S	3.50	30.00
Row-run plants, 6 to 18 ins., well rooted. C., Cutting; S., Seedling. Prompt shipment.		

McMINNVILLE TREE CO.
BOX 125 **McMINNVILLE, TENN.**

*We Offer***FOR SPRING AND FALL**

An extra-fine lot of
Peach — Plum — Grape — Apricot
Cherry, Sweet and Sour
Can furnish carloads.

Also **Shrubs, Evergreens and Shade**
Trees.

Send us your want list.

COMMERCIAL NURSERY CO.
Nicholson Bros. **DECHERD, TENN.**

**WHOLESALE
NURSERY STOCK**

Cushion Chrysanthemums, No. 1
rooted div.

General Line of Small Fruit Plants
Lining-out Evergreens
Fruit Trees

O.K. NURSERY

R. R. 2 **BUCHANAN, MICH.**

WHAT RETAILERS EXPECT.

[Concluded from page 12.]

carefully, they will tie those plants too tight and injure them. Sometimes the plants remain tied up two or three days in that condition before the retailer gets them. Then it is a long time before they resume their natural shape.

Receiving stock on time is important. Now, we cannot always blame the wholesaler for not delivering stock on time. There are many factors, such as weather.

Sometimes we have called a wholesaler, who says, "I will get the stock to you next Wednesday." A customer comes out from Brookline and says, "Have you got such and such a plant?" We say, "No, but it will be in Thursday." Well, on Friday he comes out looking for the plant and says, "Here I am. Where is my plant?" All we can tell him is it just did not come in.

We cannot do that to our customers very long before they go to somebody else. Often it is not the retailer who is at fault. It is the man who should be backing him up. If you cannot deliver stock at the time promised, you should notify the retailer; it would help a lot.

Proper packing is essential, especially of stock that is shipped a great distance. The railroads are moving faster than they did right after the war, but stock is still on the road a long time. Unless stock is treated so that it is kept in good condition by wet hay, sawdust or peat, or something of that type, the plants do not arrive in good condition.

If you deliver stock by truck to a retailer, it should be covered. That is elementary.

It is easy to load a lot of evergreens by laying them down, or piling them one on another. You can get a big load on the truck that way, but when the plants arrive at where they are going to be sold, they just will not be perfect plants. They are more or less in the condition of one that has been tied up too long.

When you send a sample, be sure it is a sample, not a top specimen. Sometimes we get a sample in and say, "Boy, it is certainly wonderful," but when the plants arrive, they do not even resemble the sample at all.

To repeat myself somewhat, all these things hurt the wholesaler, even if not directly, because the retailer is just as good as the wholesaler from whom he is buying the stock.

So, I should like to make one point for all wholesalers to remember, that their business is good as long as the retailer's business is good.

**NORTHERN-GROWN
STOCK**

500 at 1000 rate. Cash, or satisfactory references.

2-YR. SEEDLINGS

	Per 100	Per 1000
American Arborvitae, 2 to 4 ins.....	\$3.00	\$25.00
Black Hills Spruce, 2 to 3 ins.....	2.50	20.00
Colorado Blue Spruce, 2 to 4 ins.....	3.00	25.00
Norway Spruce, 2 to 4 ins.	3.00	25.00
Scotch Pine, 3 to 5 ins.....	2.50	20.00
White Pine, 3 to 5 ins.....	3.00	25.00
Mugho Pine, 2 to 4 ins.		
We believe this to be a true dwarf type.....		
5000 or more.....	3.00	25.00
Balsam Fir, 2 to 3 ins.....	2.50	20.00

Write for prices on 10,000 or over.

J. R. PALMER & SON
BLACKDUCK, MINN.

**COMPLETE ASSORTMENT
OF**

**Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.**

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

Boyd
NURSERY COMPANY

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New Books and Bulletins

PLANT PERSONALITY IN THE LANDSCAPE.

If plants are to be used in a manner that will appear natural and beautiful, their intrinsic qualities must be valued and used and the character of the plants attuned to the character of the scene. So believes Florence Bell Robinson, professor of landscape architecture at the University of Illinois, and in her latest book, "Palette of Plants," just published by the Garrard Press, Champaign, Ill., at \$3, she discusses the use of plants in the landscape from an artistic conception. This is a concept which embraces the color, texture, form, growth habit and character of each plant, as well as ecological relationships and botanical associations.

Too often expediency, accessibility and economic reasons govern the choice of plant materials. Instead, they should be selected for their character, personality or human appeal and for their appropriateness to the structure or scene to be landscaped. Exotic plantings are best for exotic structures, intimacy and refinement are usually desirable for home plantings, boldness and strength suit public plantings and period plantings go with period architecture. When character is carried uniformly through the design it results in unity of expression in the scene and harmony in all details, which Professor Robinson believes are the goals of fine landscape art.

To carry out her theme, that plants are the living pigments with which the landscape architect completes his picture, Professor Robinson reveals the personality of various plants and shows how this knowledge combined with taste and good judgment can be used to obtain greater harmony and more lasting beauty in the landscape. She gives the requirements for the use of plants in their nine functions, which she has listed as ground covers, undercovers, edgings, barriers, borders, specimens, accents, canopies and fillers. The character and personality of various trees and shrubs are described from the human aspect, with drawings and photographs to illustrate the author's ideas. Further chapters discuss the artistic use of conifers, flowers, hybrids, exotics and grass in the landscape. There are also separate chapters devoted to the rose garden, rock garden, water garden and roof garden, and the concluding ones cover cemetery plantings and public plantings.

Although intended as a text for students in landscape architecture, and to serve as a supplement to texts on principles of design, such as Professor Robinson's "Planting Design," "Palette of Plants" is written in a manner comprehensible to others and should find value to those planning outdoor areas for use and beauty.

PLANT DISEASE GUIDE.

Although author Cynthia Westcott herself claims that "Plant Disease Handbook" is neither a comforting bedside volume for the first-year gardener nor a treatise for the specialist in any field, this 746-page book contains a compilation of all available information on diseases of plants grown in the garden or in the home in the continental United States and is thus a valuable addition to the bookshelves of any American or Canadian gardener or to those who advise the amateur gardener.

Organized to allow for quick, accurate detection of the nearly 1,500 diseases of 1,000 host plants, this compendium also contains some 115 illustrations and photographs made

by the author, who is widely known as "the plant doctor." Control measures are discussed also, of course. The D. Van Nostrand Co., New York, has published "Plant Disease Handbook" at \$7.50.

HOME GARDEN PLANS.

A wide variety of garden plans for home properties has been assembled by John Elliott in the 52-page booklet, "65 Practical Garden Plans," published by D. Van Nostrand Co., New York, at \$1. Designed to give the homeowner practical solutions to his garden-planning problems or just hints for improving his garden, the plans range from the pretentious, for a large country home with formal gardens, swimming pool and tennis court, down to the simple, for a back-yard planting. Each of the sixty-five plans is labeled for a specific type of property or house. Among them are a plan for a garden located on a flat area on top of a windy hill, one for a low, rambling suburban house

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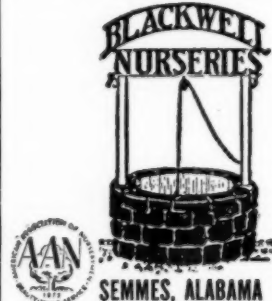
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on a corner lot and one for a wooded slope preserving existing trees. All the plans, which are keyed for suggested plants, are aimed at making outdoor living rooms of the home property. Also included are designs and suggestions of varieties for four border plantings.

The author gives his preferences as to plant varieties, selecting them on the basis of hardiness to general climatic and soil conditions, as well as for resistance to insect pests and diseases. Evergreens are listed both for foundation and specimen planting, and deciduous shrubs are classified into height groups, while other lists cover perennials, ground covers and grass seed mixtures.

GARDENERS' HANDBOOK.

A book to end all garden books, "The Complete Gardening Guide" carefully steers the reader through all the dangers of the horticultural world, from buying that first package of seeds to designing floral decorations. A few of the many other topics discussed are property planting plans, how to work a flower garden, flowering plants, roses, trees, shrubs and lawns, a home orchard, vegetable gardens, woody plants and garden pests.

Nor is this 452-page volume lacking its share of distinguished authors, for it has been prepared under the editorship of Maron J. Simon, city editor of the New York Herald-Tribune, with contributions from Dickson W. Pierce, Beatrice P. Hendrix and John Elliott.

Illustrated by ninety-three photographs in full color and 156 illustrations in black and white, it is a practical, not a theoretical, book to assist and guide home gardeners in their perennial efforts to beautify their home and grounds. This all-around handbook of information on every topic of interest to the gardener has been published by D. Van Nostrand Co., New York, at \$5.

"ENTOMA" REVISED.

The subtitle "A Directory of Insect and Plant Pest Control" is a concise description of the handbook officially called "Entoma," for it contains listings giving various kinds of information on insecticides and fungicides that is often difficult of access. Following a brief section on some fundamental facts about these materials together with considerations to be given their selection and use, the bulk of the 372-page directory is devoted to alphabetical listings of insecticides,

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fungicides and materials used in them and the machinery and supplies for mixing and applying them together with the names of the principal manufacturers and distributors. Further listings give producers, formulators, consultants and operators in this field, and there are also concise directories of associations, organizations and others connected with entomology.

The compilation of "Entoma" was done by an editorial committee of the eastern branch of the American Association of Economic Entomologists under the chairmanship of Dr. George S. Langford. Copies are obtainable at \$1.50 each from Dr. Langford, department of entomology, University of Maryland, College Park, Md.

PEST CONTROL MATERIALS.

Through the combined efforts of the Pennsylvania, Maine and Northeast agricultural experiment stations, a report on pest control materials was issued in booklet form last year, and now a revised and enlarged second edition has just been published as "Pest Control Materials, 1950." Listed alphabetically by trade name are 4,022 fungicides, herbicides, insecticides, fungicide-insecticide combinations and rodenticides, with their properties, uses and names of manufacturers. In another section the same materials are regrouped and listed as to uses and active ingredients. The final listing is of the manufacturers, with their addresses and the page numbers on which their products are listed.

ADVICE FOR BEGINNERS IN NURSERY BUSINESS.

Among the facilities of the United States Department of Commerce are publications for those starting various types of small businesses. Added to the list this year is a 4-page pamphlet entitled "Some Factors in Establishing a Small Nursery Business," which deals primarily with the retail sales yard that obtains its stock from a wholesaler. It covers both the advantages and disadvantages of establishing such a business together with basic suggestions for its operation. Single copies of this publication are available at no charge on request to your local field office of the United States Department of Commerce or to the Chicago office, Room 1150, 332 South Michigan avenue, Chicago 4, Ill.

According to a survey made in 1947, by Cornell University, the most

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efficient small nursery is one operated by one person with up to seven employees, and the pamphlet further states that beyond this size, on up to nurseries employing twenty-five persons, the operation is not so profitable because of the added overhead expense for trained supervisors.

Personal qualifications for success in the nursery business include a thorough knowledge of plants together with some creative talent to give customers advice on plantings and also the capacity to work long hours. The importance of merchandising should not be underestimated, and the pamphlet gives pointers on this subject as well as on advertising and displaying stock.

Also covered are the selection of location and amount of land required, the needed buildings, equipment and stock, as well as capital requirements, which, the pamphlet states, should provide for land, buildings and equipment with a sufficient reserve to pay monthly operating costs for at least six months. It was found in the Cornell University study that the ratio of capital investment per nursery employee was \$10,000.

In the paragraphs on pricing, the beginner is advised that, because of the relatively slow rate of turnover in nursery stock, he must realize a much larger profit on each sale than many other types of retailers. Generally, the pamphlet says, nurserymen figure on a fifty per cent gross profit, or a 100 per cent markup. One should know how to buy and price intelligently, and pointers are also given on inventory and expense control.

OHIO PLANT PEST LAW.

The Ohio plant pest law together with the regulations and quarantines thereunder effective October 21, 1949, has been published as a 32-page bulletin by the state department of agriculture. One handy chart shows types of plants requiring certification for entry into various states, and another shows requirements for interstate shipment, special certifications and quarantines or orders, so that it may be followed as a nursery stock shipping guide. Copies are obtainable from the division of plant industry, Ohio department of agriculture, Columbus, O.

FOLLOWING the death of his mother last year, John J. Lyden is continuing the Lindhome Nurseries, at North Monmouth, Me., where he will grow evergreens along with the lilacs, lilies and peonies in which his mother specialized.

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MILTON NURSERY CO. HONORS FOREMAN.

On March 23 the Milton Nursery Co., Milton, Ore., gave a reception in honor of its long-time foreman, Fred A. Tracy, who retired after thirty-nine years of continuous service, thirty-two of which he served as the nursery's foreman.

Employees of the company, past and present, attended to honor Mr. Tracy. C. Bert Miller, president, acted as master of ceremonies and gave a brief history of the concern. His father, Aaron Miller, with Aaron's father and Mrs. Aaron Miller, went to Milton in 1871 and settled on the homestead where the nursery is now located. Since that time this property has been in the hands of the Millers continuously. With Evert S. Miller, grandson of Aaron Miller, as a new member of the firm, Milton Nursery Co. claims four generations interested in its affairs.

From the large number of employees who were present, Bert Miller introduced eighteen present and past employees who had worked for the firm from ten to thirty-nine years, making a grand total of 424 years of service for the group.

In closing the program, George W. Miller, former president of the firm, presented Mr. Tracy with a console Magnavox radio and phonograph combination. On behalf of the employees, Owen Nixon, the new foreman, presented him with a sizable check to be used for purchasing phonograph records.

RECENTLY B. L. Woods closed his Keystone Fuchsia Gardens, at Torrance, Calif., to consolidate his business with that of C. E. Small, of the old Small & Hargett Nursery, also at Torrance, and they have opened Keystone Shade Gardens, at 248 West Carson street, Torrance. The firm specializes in the propagation of fuchsias and is also going into begonias.

FORMERLY a sales representative for Andrew Wilson, Inc., Springfield, N. J., Howard A. Gerlach has leased the nursery business of Fifth Avenue Nursery & Florists, Inglewood, Calif., and named it Fifth Avenue Garden Supply. The street address is 2510 West Manchester boulevard. The flower shop has been leased to William Riach, who was formerly employed by the Francis Floral Co., Los Angeles. The lessor, H. F. Paulson, is continuing his landscape business.

DOING MORE FOR THE CUSTOMER.

[Continued from page 8.]

he likes to do it himself. Tell him exactly how to build the wall so that it will hold, where rock can be obtained and how much it costs. He will appreciate this advice, and even though he has not heard of your firm before or has not intended to do any planting, I will gamble that he will call on you when he is ready to do the planting.

Many other little things which we have suggested to customers have paid big dividends. One of them is that they install an underground garbage container. Most of them have never heard of such a thing, but we fellows in the business get around lots of yards and we see things that the average citizen does not notice. When we tell them how such a container works, how much it costs and how easy and quickly it is installed, they order one immediately. In many cases they ask us to obtain one and put it in while the boys are in the process of digging.

Also remind the owner to have at least two outside water faucets, one on each end of the building. This information we have found especially valuable to industrial firms. In the past, business structures were built to the lot line or to the sidewalk line and had little need for outside water connections. Nowadays, with the buildings set back, the extra ground requires lawn planting and landscaping. Seldom does the architect or builder or owner think of outside hydrant connections, some of which are almost impossible to make after the building is once completed.

When the cement is ready to be poured, suggest that the sidewalks be left at least two inches higher than the finished lawn area, so that they will always drain and be dry. Even at that, the owners will find a remarkable build-up of the soil and sod immediately adjacent to the walk in a period of a few years, and the walk will not be too high. To prolong the life of the sidewalks and driveways, tell the owner to be sure to have an expansion joint put where the concrete connects with the house or garage, as well as one where it connects with the city sidewalk or street.

You might also suggest to the new homeowner that he obtain from the local lumberyard one of the galvanized iron basement window areaways. These permit a better grading job around the house and keep the dirt away from the basement windows. If the inside of this is painted white, it reflects a tremendous amount of light

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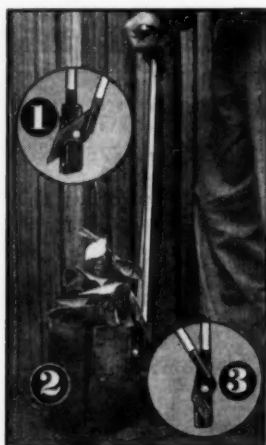


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into the basement. Installation takes only a few minutes.

When you are done with the job, assist in getting a yardman if you possibly can. Try to have the names of two or three yardmen who are available for work one day a week in the neighborhood.

Now, there are a great many laws affecting homeowners that no one seems interested in until he gets into difficulty. We suggest to each homeowner that he demand from the person he purchased the lot from that permanent steel stakes be placed in the lot corners by a registered engineer. This is important, for hedges and plantings along the border or fences should be carefully located to follow the correct lot line. After they are in place for eleven years they establish a new lot line, if it is different than the lot line designated by the steel stakes; at least, that is the law in Iowa. If a hedge or fence is located four feet inside your lot line for a period of eleven years and you do not use that four feet outside that fence for planting yourself, it automatically becomes the property of your neighbor and the law will protect him in its possession.

We discourage any of our customers from being so friendly and generous that they have community drives with their neighbors; that is, a drive used by both neighbors, half on one lot and half on the other. The 11-year law applies to this, also. Once the neighbor uses that drive for eleven years, you can never get him to give it up. He owns half the width of the drive on your property or, at least, has the use of it forever.

In grading, we inform customers that they cannot materially change the course of natural water flow, unless to throw it onto a public street or alley. If they trap or tile or make a ditch in which an appreciable amount of water is concentrated in one spot, it cannot be emptied out of that tile or ditch any closer than eight feet to the property line. At that point the water flow would have to be spread out, or you would be in trouble with your neighbors.

Another thing to remind the homeowner is that from his property line his ownership extends straight up and straight down. This is quite important in regard to mature trees. In our community a person on whose property the trunk of the tree is growing owns the tree. However, if the branches grow over a neighbor's property, he has the right to cut those branches off at his lot line, which in some cases might be necessary due to a building's going up close to a lot line.



We pay shipping costs on lining-out stock to all points in the United States, Canada and Alaska. No packing charge is made on either lining-out or balled stock.

SHERWOOD NURSERY CO.

EVERGREENS - Propagators & Growers
Wholesale Only

141 S.E. 65th Ave., PORTLAND 16, ORE.

FOR 1950 SEASON

Fruit Trees
Small Fruits
Fruit Tree Seedlings
Flowering Trees
Shade Trees
Shrubs
Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

RICH & SONS NURSERY
Hillsboro, Oregon

PACIFIC COAST NURSERY

2244 N. Skidmore Ct.
Portland 11, Ore.

Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. **Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet.**

We aim to please with quality stock.

John Holmason & Sons, Props.

ROSES

Two-year-old, field-grown plants.
Send for wholesale list.

Maywood Rose Nursery
P.O. Box 5033, PORTLAND 13, ORE.

Publish your price list in the
AMERICAN NURSERYMAN
to reach the trade promptly.

RECENT BOOKS

STONE MULCHING IN THE GARDEN, by J. I. Rodale (\$3.00).

Backgrounds and methods of stone mulching; much up-to-date material on modern agriculture. 164 p., 40 illus. (1949).

THE EARTH'S FACE AND HUMAN DESTINY, by Ehrenfried Pfeiffer (\$2.75).

Shows ways in which we can achieve ecological harmony between ourselves and the landscape in which we live. 61 illus. (1947).

GENETICS AND CYTOGENETICS, by Herbert P. Riley (\$5.00).

Modern treatment of cytological approach to genetics, including both plant and animal material; emphasizes chromosomes and their close association with the transmission of the gene. 596 p., 154 illus. (1948).

CHEMISTRY AND USES OF INSECTICIDES, by E. R. De Ong (\$6.00).

Deals with all types of insecticides. Information on each product covers its chemical nature, methods of application, etc. 317 p., illus. (1948).

SOILLESS GROWTH OF PLANTS, by Ellis and Swaney (\$4.75).

Based on various operations followed in a soilless culture unit. Introduces different types — water culture, sand culture, etc. 265 p. (1947).

THE EARTH'S GREEN CARPET, by Louise E. Howard (\$3.00).

Danger to national health caused by use of chemical fertilizer on the land; plant growth, gains and losses in fertility of the soil, disease, preparation of soil. 258 p. (1948).

SMALL FRUIT CULTURE, by James S. Shoemaker (\$4.00).

A text for instruction and reference work on all types of small fruit. 2nd edition. 428 p., 64 illus. (1948).

AMERICAN HONEY PLANTS, by Frank C. Pellett (\$6.00).

Includes a digest of all other important literature on honey plants in the English language; organized alphabetically under common names; indexed for rapid location of plants; many illustrations to aid in identification. 452 p. (1947).

CHEMICAL INSECT ATTRACTANTS AND REPELLENTS, by Vincent G. Dethier (\$5.00).

Contents: Essential oils, resins and related substances. Fermentation products. Protein and fat decomposition products. Baits and traps. Repellents. Evolution of feeding preferences. 260 p., 69 illus. (1947).

HUMUS AND THE FARMER, by Friend Sykes (\$4.50).

Story of a large farm successfully operated according to organic methods — making of pastures, reclamation of lands and increasing productivity of soil. 40 illus. (1949).

MEMOIRS OF A ROSE MAN, by J. Horace McFarland (\$3.00).

Intimate stories of Breeze Hill — how a small vineyard was converted into a garden of roses. (1949).

For sale by

AMERICAN NURSERYMAN
343 S. Dearborn St., Chicago 4, Ill.

If a tree is growing exactly on the lot line and, for some reason, must be removed for a proposed structure, you must get together with your neighbor. If he is a little mean about it and will not cooperate, you have a perfect right to saw exactly on the property line and cut your half of the tree down. Probably by that time he will permit you to cut it all down.

This brings up an interesting question, which we have been asked many times, in regard to the fruit or nuts or any crop on a tree. The law says that the fruit belongs to the person who owns the trunk of the tree as long as that fruit is on the tree. However, if it hangs over the neighbor's lot line and that fruit drops on the ground, then it is the property of the person on whose ground the fruit falls.

Make it a point to familiarize yourself with the building code laws and requirements and restrictions in your community. Most of the owners of new homes are going to have to build their own garage later. Know how far your local laws require that they build from the lot line and from the house, and how the requirements change if the garage is attached to the house. Know also the laws pertaining to the overhang of the roof, etc. If in the building code there are any requirements or restrictions as to type of material, so instruct your customer. You may save him many dollars, which, incidentally, he may spend with you later on.

Last but not least, after you have done the planting for a customer or delivered material to him, keep an interest in that material by informing him periodically of the proper care of the plants. We have a series of penny post cards with a mimeographed message on each as to summer watering, fall watering, dog protection, wrapping trees and shrubs against rabbit damage, winter mulching of certain varieties, etc.

While these last are in the realm of attending to your own merchandise and sales, if you can do some other little things for the customer while you are with him, usually something that he does not ask you to do, it will count a great deal in the impression that you make. Of the many things which we suggest to a customer, we feel well repaid if he adopts only one of them, or accepts our tip or suggestion on even one, because then we feel that we have rendered him a service over and above the service which we owe him in regard to his planting. So, in conclusion, let me repeat that, if you do more for your customer, he will do more for you.

WANT ADS

Display: \$3.00 per inch, each insertion.
Lines: 25¢ line; Minimum order \$2.00.

FOR SALE

A Golden Opportunity.

A 48-yr.-old, successfully conducted retail nursery and landscape concern on route 140 at Franklin, Mass., together with a two-family, 14-room house, a large barn, 40x60 ft., equipped with offices, 9½ acres of plant material, landscape tools, machinery, fertilizers and what not. Reason for selling—old age. Price, \$17,500.00. For further details, apply to:

M. J. VAN LEEUWEN
363 W. Central St., Franklin, Mass.

HELP WANTED

Nursery Foreman

To operate propagation greenhouses, nursery salesyard and modern garden supply store on a principal highway in a beautiful section of Virginia. Living quarters furnished. State age, qualifications and requirements in applying.

WAYNESBORO NURSERIES
Waynesboro, Virginia

PARTNER WANTED

Well established and reliable rose nursery in east Texas needs inactive partner with \$15,000.00 cash. Good proposition for someone, and will pay 15 to 25 per cent per year. For further details, please write Box 716, care of American Nurseryman.

HELP WANTED

Small Midwest nursery in good trade territory desires capable man to make landscape plans, sell and supervise landscape plantings and services. Practical experience an asset. Good opportunity and promotion for right person. State qualifications. Salary plus commission.

Address Box 722, care of American Nurseryman.

FOR SALE

One of the finest nurseries and floral shops in So. Calif. Excellent all-year climate. Splendid location, state highway. One acre, 350-ft. frontage, covering 7,500 sq. ft. bath, 2,000 sq. ft. glass. Two modern salesrooms, \$2,500.00 walk-in refrigerator. Sacrifice less than inventory. Reason, illness. \$10,000.00 will handle. Write P.O. Box 911, Redlands, Calif.

FOR SALE

Nursery in the growing northwest, vicinity of Portland, Oregon, on main highway. 4 acres. 2 greenhouses, 2 siatouses, 5-room dwelling, good business. This place in A-1 condition. Owner retiring. Full details upon request. Address Box 711, care of American Nurseryman.

FOR SALE

Well established landscape, small nursery and maintenance service, excellent location in expanding community, high-class clientele. South Shore Long Island, N. Y. Fully equipped, including 1947 truck, Rototiller, tools, land for growing stock and business headquarters. House optional. Retiring. Write Box 713, care of American Nurseryman.

CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

AZALEAS

AZALEAS.
Superior, extra-heavy rooted cuttings and liners with exceptional root systems. Available for immediate delivery. Write for list of varieties. Per 100
Indica, rooted cuttings.....\$ 5.50
Indica, liners.....12.50
Kurume, liners.....15.00
FLORIDA NURSERY & LANDSCAPE CO.
Box 97 Leesburg, Fla.

AZALEAS from 2 1/4-in. pots and beds, \$10.00 per 100; \$30.00 per 100. Salmon Queen, Refugee, Sweetbriar, Vicomte de Neuport, Star Dust, Violaeca Rubra, Cocinea Major, Satsuki, Mountain Laurel, Crocinea, Salmon Prince, Kaempferi Pink, Orange Beauty, Early Lavender, Daybreak, Prince of Orange, William Enck, Eiten.
FRUITLAND NURSERIES
Box 910 Augusta, Ga.

75,000 AZALEA TRANSPLANTS.
Indica alba, Mary, Hinodegirl, Alice, Amoen, Hinomayo, Flame, Purple King, mixed pink kaempferi.
12 1/2 c each in 1000 lots; 15 c each in 100 lots.
Packing and shipping extra.
DEKALB NURSERIES, Inc.
Norristown, Pa.

AZALEA LINERS.
Write us for prices on Kurume and Indica Azalea liners. Excellent stock of Pride of Mobile and other varieties.
FLOWERWOOD NURSERY, Inc.
Route 1, Box 130 Mobile, Ala.

BERRY PLANTS

STRAWBERRIES, fresh-dug, 100 1000
Dunlap\$1.20 \$ 7.50
Robinson1.35 9.00
Premier1.50 11.00
Fairland, Catakill1.70 12.00
Temple, Sparkle, Dorsett1.70 12.00
Brune's Marvel Everbearing1.70 12.50
Gem Everbearing1.75 14.00
Streamliner, Mastodon, Everb.2.30 18.00
Minnesota 1166 Everbearing2.30 18.00
Superfection Everbearing3.00 25.00

RED RASPBERRIES.
Latham, transplants6.75 55.00
Latham, No. 1 suckers5.00 40.00
Latham, medium suckers3.25 28.00
Chief and Cuthbert, No. 15.75 47.50
Sunrise, No. 16.25 52.50
Indian Summer Everb., No. 17.00 60.00
St. Regis Everbearing, No. 15.00 40.00
Golden Queen, yellow rasp.7.00
BLACK RASPBERRIES, No. 1 tips.
Cumberland and Logan3.75 30.00
Bristol, Morrison and Major4.75 40.00
Rosenberries, thornless, tips6.00 50.00
Rosenberries, common, tips5.00 40.00
Dewberry Lucretia, tips5.00 40.00
Dewberry Gardinia, thornless7.00
All other fruit plants. Send for list.
E. W. HUBNER NURSERY
Stevensville, Mich.

RASPBERRY PLANTS.
BLACK, No. 1 Tips. Bristol
CumberlandMorrison
LOGANMorrison
PURPLE, No. 1 Tips. Marion
SodusMarion
RED, No. 1 Suckers and 1/4-in. cal. Transplants. Latham
Indian SummerLatham
Complete list of grapevines, currants and blackberries. All of the above is in storage ready for immediate shipment. Write for our lowest wholesale prices on your requirements.
H. E. CONGDON NURSERY
North Collins, N. Y.

STRAWBERRY PLANTS.
All leading everbearing varieties. Northern-grown, No. 1 plants. Per 1000
Streamliner\$20.00
Minnesota 116615.00
Brune's Marvel12.50
Twentieth Century45.00
Superfection20.00
Gem10.00
Newburgh Raspberry plants. \$30.00 per 1000. Discount given on large orders.
McNEAL BERRY NURSERY
Hamilton, Mont.

STRAWBERRY PLANTS.
Northern-grown; doubly inspected.
Gem EverbearingPer 1000
Premier\$10.00
ROBERTS STRAWBERRY NURSERY
Rt. 6 Kalamazoo, Mich.
STRAWBERRIES.
Bush-type Everbearing, Wayzata origin. Ideal plant under intensive irrigation. Divisions only \$60.00 per 1000.
PAULSEN'S NURSERY
Minden, Neb.

RASPBERRY PLANTS. Per 1000
Latham, red.
No. 1 suckers\$30.00
1-yr. transplants (sold out)
2-yr. transplants50.00
No. 2 suckers15.00
Bristol, black, tips35.00
Cumberland, Logan, Morrison, black, tips30.00
Columbian, purple, tips (sold out)
C. H. BENEDICT, Grand Junction, Mich.

STRAWBERRY PLANTS — Doubly Inspected, northern-grown Dunlap, Beaver, Blakemore, \$7.50 per 1000; 10,000 up, \$7.00 per 1000. Premier, Giant Robinson, Bellmar, \$9.00 per 1000; 10,000 up, \$8.00 per 1000. Giant Gem, Streamliner, Minnesota 1166 everbearing, \$16.00 per 1000; 10,000 up, \$15.00 per 1000. These are young, healthy, fresh-dug plants, guaranteed to reach you in good growing condition. IOWA NURSERY, Farmington, Iowa.

STRAWBERRY PLANTS.
Twice-inspected Blakemore and Aroma, \$6.00 per 1000, F.O.B. here. Heavy roots and crowns. Guaranteed true-to-name and to reach you in good dormant condition, or will ship direct to your customers either parcel post or express. Prompt shipment.
IDEAL FRUIT FARM
Stillwell, Okla.

IMPROVED SENATOR DUNLAP STRAWBERRY PLANTS. They produce large berries, and we think they are the largest producers of them all. Good, strong, double, state-inspected, irrigated, fresh-dug plants, guaranteed to reach you in good growing condition, \$7.00 per 1000. Prices quoted for larger amounts.
RILEY'S NURSERY
Concordia, Kan.

**STRAWBERRY PLANTS—State certified, twice inspected. Robinson, \$9.00 per 1000; Premier, Catakill, Fairfax and the new Fairland, \$11.00 per 1000. Everbearing varieties: The new Superfection, \$22.00 per 1000; Streamliner, \$15.00 per 1000; Minn. 1166, Mastodon and Gem, \$12.00 per 1000.
GATEWAY NURSERY
New Buffalo, Mich.**

STRAWBERRY PLANTS.
Northern-grown—State-inspected.
True-to-name—Freshly dug.
PremierPer 1000
Mastodon\$10.00
Cumberland Black Rasp., 1-yr. tips26.00
KRONBERG NURSERY
Allegan, Mich.

SUPERFECTION EVERBEARING STRAWBERRY — Foundation stock plants, direct from the originator. The true advanced strain, giving advertising advantages and prestige to users of my foundation stock plants. FRANK J. KEPLINGER, originator and owner of HEART-O-MICHIGAN FARMS & NURSERIES, Farwell, Mich.

STRAWBERRY PLANTS — Northern-grown, spring-dug. Dunlap, \$8.00 per 1000; Robinson, \$9.00 per 1000; Premier, Fairfax, Catakill, \$11.00 per 1000; Everbearing Streamliner, \$15.00 per 1000; Gem, \$12.00 per 1000, and Minn. 1166, \$14.00 per 1000. Order early. PERCY'S STRAWBERRY NURSERY, Kalamazoo, Mich.

**NEW MORRISON RASPBERRIES, tips, \$30.00 per 1000.
ROBINSON STRAWBERRY PLANTS, \$8.00 per 1000. Can ship direct for you if desired.**

ASHCRAFT PLANT NURSERY
Copemish, Mich.

Cumberland and New Logan Per 1000
Raspberry plants\$25.00
Robinson Strawberry Plants8.00
Extra-fine plants after best growing season in many years.
ALMENA NURSERY
Paw Paw, Mich.

Certified Minnesota Strawberry Plants.
Wayzata\$40.00 per 1000
Improved Giant Gem12.50 per 1000
ALLENORE NURSERY
Excelsior, Minn.

The Trade's Buying Guide—
The American Nurseryman Ad.

BULBS AND TUBERS

GLADIOLUS BULBS IN BRIGHTLY COLORED LABEL BOXES.
Gladiolus bulbs in very attractive boxes, 4-color labeled for counter sales. 12 large, rainbow mixed bulbs per box.
\$35.00 per 100 boxes; \$7.50 per 20-box case.
Sample offer 4 boxes for \$2.00.

CLEARANCE SALE: Rainbow mixed gladiolus bulbs, per 1000.
No. 1, \$12.00; No. 2, \$9.00; No. 3, \$7.00.
100 at 1000 rate. Cash, please.
JOHN G. VUICH
R. F. D. 2, Napier Rd., Watervliet, Mich.

CLEANUP DAHLIA SALE. Per 100
Quantities on hand
1000 Mrs. I. V. Warner, large orchid-lavender\$11.00
1000 Mrs. Marg. W. Wilson, enormous pink\$11.00
1000 Yellow Glory, enormous yellow12.50
500 Mrs. Ball, enormous red11.00
500 Maid of Kent, large variegated12.00
COMPOS
500 Indian Chief, wine-red with white tips10.00
500 Morning Mist, white tinged orchid11.00
2000 Bronze Beauty10.00
2000 Special mixed9.00

MONARCH BULB FARMS
1110 Division St. Kalamazoo, Mich.

NEILSON'S FLORAL GARDENS offer the following specials in healthy, double-inspected gladiolus bulbs; generous grade and counts.
Per 1000 Nos. 1 2 3 4 5 6 qt.
M. Fulton\$20 \$17 \$12 \$10\$1.80
Florists' Mixture. 18 16 10 8 6 \$4 1.80
Primulina
Mixture20 162.00
Florists' Mix., a fine, balanced mix to please the commercial grower.
Primulina Mix. contains fine little glads in beautiful colors; fine for special basket work. Other growers' lots and dahlias. Write for lists. Prices F.O.B.

NEILSON'S FLORAL GARDENS
Farmington, Iowa

CLEARANCE SALE.
Gladioli, Cannas, Lilies, Dahlias, Begonias, Perennials and Panay seeds. Write for complete list.

MONARCH PLANT FARMS
Kalamazoo 99, Mich.

HARDY NORTHERN-GROWN LILY BULBS.
New, rare, scarce and unusual as well as standard varieties.

New wholesale list now ready.
Send for your free copy.

J. HENDRIKS, Grower Portage, Mich.
50,000 DAHLIA ROOTS. We grow many acres of standard cut flower varieties for the trade. Write today for wholesale price list.
PAYNE DAHLIA FARMS, Route 5, Kansas City 3, Kan.

Double Tiger Lilies, 4 to 6 ins., \$8.50 per 100. The EVERGREEN NURSERIES, Lowell, Ind.

Don't Be Late!
Mail advertising copy to reach the American Nurseryman
Monday, two weeks before date of issue.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS.
These are field-rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

CUSHION TYPES. Per 100
*Bronze Cushion\$4.00
*Pink Cushion4.00
*White Cushion4.00
*Sandy Claus, Bright red4.00
*Yellow Cushion4.00

TAILER, CUT FLOWER TYPES.
*Acacia, Single, yellow, profuse4.00
*Autumn Lights, New bronze4.00
*Clara Curtis, Early pink Korean4.00
*Dean Kay, Early pink4.00
*Deanna, Rose-pink4.00
*Ember, Glowing orange4.00
*Hebe, Early pink Korean4.00
*Irene, White pompon4.00
*Red Kristina, Large Korean4.00
*Little Bob, Bronze pompon4.00
*Mrs. Morgan, Large chestnut4.00
*Ouray, Bronze pompon4.00
*Pygmy Gold, Yellow pompon4.00
*Reverell, India-red, Eng.4.00
*Seminole, Early white4.00
Above plants, starred varieties only, field clumps, \$2.00 per 10; \$15.00 per 100.

NEW CUSHION MUMS.
Achievement, Apricot tints6.00
Champion Cushion, Red-bronze6.00
Major Cushion, Bright pink6.00
Yellow Supreme, Large early6.00
25 of a variety at 100 rate.
Minimum field divisions, 25 of a variety.
ELKHART NURSERY CO.
Elkhart 1, Ind.

HARDY CHRYSANTHEMUMS.
Field divisions. Algonquin, yellow, very good for cut flowers. Champion, bronze; Major Cushion, pink; Dahliamum, purple; Joan Helen, purple with yellow center, \$5.00 per 100. Low-growing cushion type. Red, white, bronze, pink, \$4.00 per 100.
GATEWAY NURSERY
New Buffalo, Mich.

HARDY CHRYSANTHEMUMS.
Send for our price list.
Cultural notes on cut flowers and pot plants.
C. C. BREECE
Delaware, Ohio

"COLORFUL MUMS."

Attractive colors that endure are more pre-dominant in selected colorful hardies than any other class of plants. Our selections are wonderfully attractive; sales-appeal colors, from deepest to various soft and enduring blends unknown in other flowers.

Growers who desire to participate in profits being made should lose no time in ordering one of our variety selections. Every one a gorgeous, early-to-late blooming assortment of representative varieties, including many of the newest and very best, such as Gov. Duff and Cutie.

ROOTED CUTTINGS, labeled, true-to-name.
50 each, 20 kinds, 1000 plants.....\$35.00
25 each, 20 kinds, 500 plants.....20.00
10 each, 20 kinds, 200 plants.....12.00
5 each, 20 kinds, 100 plants.....8.00
50 each, 40 kinds, 2000 plants.....70.00
25 each, 40 kinds, 1000 plants.....40.00
10 each, 40 kinds, 400 plants.....24.00
5 each, 40 kinds, 200 plants.....16.00

For strong, 2-in. Vita-Band pots add 6c each to above prices. Will harden outside, ready for field planting and counter sales. If you request, which assures no planting loss. Assortment of 250 newest, popular and most profitable varieties in quantities of 5 to 50, out of hundreds field-tested here at the Floretum, are priced in our 1950 catalog "COLORFUL MUMS," mailed on request.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

EVERGREENS

EVERGREEN LINERS.
From 3 1/2-in. Rose pots
and 1 to 2-yr. transplants.

	100	1000
Douglas Pyramid Arborvitae, from pots, 8 to 10 ins.....	\$20.00	\$175.00
Pfitzer Juniper, 2-yr., from pots, 6 to 10 ins.....	20.00	175.00
Pfitzer Juniper, 1-yr., from pots, 6 to 9 ins.....	18.00	155.00
Andorra Juniper, 1-yr., from pots, 6 to 9 ins.....	16.00	140.00
Juniperus horizontalis glauca, from pots, 6 to 9 ins.....	16.00	140.00
Taxus cuspidata, 2-yr. tr., 6 to 9 ins.....	27.50	250.00
Taxus cuspidata, 1-yr. tr., 6 to 10 ins.....	15.00	125.00
Taxus cuspidata capitata, upright, 1-yr. tr., 6 to 9 ins.....	20.00	160.00
Taxus repandens, 1-yr. tr., 4 to 8 ins.....	15.00	125.00
Taxus stricta, 1-yr. tr., 4 to 8 ins.....	15.00	125.00
Taxus brevifolia, 1-yr. tr., 4 to 8 ins.....	15.00	125.00
Taxus media hickii, 1-yr. tr., 6 to 9 ins.....	15.00	125.00

Packing free when cash with order.

RASMUSSEN NURSERIES
Mansfield, Pa.

LINING-OUT STOCK.

Seedlings.	Per 100	Per 1000
Juniperus virginiana, 2 to 4 ins.....	\$4.00	\$40.00
Magnolia glauca, 2 to 4 ins.....	4.00	35.00
Tsuga canadensis, 6 to 8 ins, tr.....	12.00	100.00
Twice-transplanted cuttings from beds.		
Taxus media hatfieldi.....	\$2.75	\$25.00
Taxus media hickii.....	2.75	25.00
Taxus media Moon's columnaris.....	2.75	25.00
Taxus media Vermeulen.....	2.75	25.00
Well established cuttings from 1/2-in. pots.		
Andromeda japonica.....	\$1.75	\$15.00
Ilex crenata bullata.....	1.75	15.00
Juniperus communis hibernica.....	1.75	15.00
Juniperus communis suecica nana.....	1.75	15.00
Taxus baccata repandens.....	1.75	15.00
Taxus cuspidata nana.....	1.75	15.00
Taxus media hickii.....	1.75	15.00
Taxus media Moon's columnaris.....	1.75	15.00
Taxus media Vermeulen.....	1.75	15.00

HESS NURSERIES
Mountain View, N. J.

LINERS WITH QUALITY.

Bare-root Potted	Each	Per 10	Per 100
Arborvitae Blue-spire.....	\$0.12		
Gardenia fortunei.....	\$0.12		
Gardenia Mystery.....	.10		
Jasminum nudiflorum.....	.08		
Jasminum primulinum.....	.08		
Juniper, Ashford.....	.15		
Juniperus excelsa stricta.....	.18		
Juniper, Irish.....	.10		
Juniper, Kiyono.....	.15		
Juniper, Sylvest.....	.15		
Juniper, vase-shaped.....	.10		
Mimosa, pink.....	.05		
Mimosa, white.....	.05		

VERHALEN NURSERY CO.
Scottsville, Texas

YOUR PROFITS GROW IN VERHALEN PLANTS.

Last call on **IRISH JUNIPER LINERS.**
Field-grown, well rooted and well furnished with plenty of tops.
Each.....
per 100.....\$0.12
8 to 18 ins.....
300 or more at 10c each per 100.
No charge for packing. Cash with order.
NAUGHER NURSERY
Chase, Ala.

EVERGREEN SEEDLINGS

	Per 100	Per 1000
Scotch Pine, 1 to 3 ins.....	\$2.50	\$15.00
Austrian Pine, 1 to 3 ins.....	2.50	15.00
White Pine, 1 to 2 ins.....	2.50	15.00
Norway Spruce, 1 to 2 ins.....	2.50	15.00
Pinus montana uncinata, 0 to 1 in. 2.50	2.50	15.00

Packing free. Orders subject to stock.

Cash with order. C.O.D. orders, 25 per cent deposit.

Stock below B&B, F.O.B. nursery in lots of 25 or more. No shipping on B&B stock.

Taxus hickii, 15 to 18 ins., heavy, xxx..... \$2.00

Paper Birch, 10 to 14 ft., 4-in. caliper..... 2.00

24-in. ball..... Per ft.

Colorado Green Spruce, 2 to 4 ft..... \$0.75

Colorado Blue Spruce, 2 to 3 ft..... 1.50

ARMINTROUT'S EVERGREEN NURSERY
Phone 714 F 12 Allegan, Mich.

LINING-OUT STOCK.

ARBORVITAE	Per 100	Per 1000
Chinese Pyramid, 1-1 3/8 to 8 ins.....	\$5.00	\$45.00
Dwarf Oriental, 1-1 3/8 to 8 ins.....	5.00	45.00
Chinese, 1-1 3/8 to 8 ins.....	4.00	35.00
Chinese, 2-0, 3 to 6 ins.....	3.00	25.00

SPRUCE

Norway, 2-0, 2 to 6 ins..... 2.50 20.00

Norway, 2-1, 2 to 6 ins..... 4.00 35.00

Black Hills, 2-1, 2 to 4 ins..... 4.00 35.00

Black Hills, 2-1, 4 to 6 ins..... 5.00 45.00

Colorado Blue, 2-1, 1 to 3 ins..... 4.00 35.00

Black, 2-1, 2 to 6 ins..... 4.00 35.00

Black, 3-1, 6 to 10 ins..... 5.00 45.00

PINE

Mugo, 2-0, 2 to 4 ins..... 3.00 25.00

Table Mountain, 1-0, 2 to 4 ins..... 2.50 20.00

Terms, 2 per cent for cash with order.

JOHN G. ZELENKA
Rt. 2, Box 293 Grand Haven, Mich.

LINING-OUT STOCK.

	Per 100	Per 1000
500 Thuja elegantissima, 2 1/2-in. pots.....	\$20.00	
300 Thuja hoveyi, XX, 9 ins.....	20.00	
200 Retinospora plumosa, XX, 12 ins.....	25.00	
75 Retinospora plumosa aurea, XX, 12 ins.....	25.00	
500 Juniperus, Waukegan, XX, 9 to 12 ins.....	25.00	
3000 Juniperus pfitzeriana, 2 1/2-in. pots.....	20.00	
(Above Pfitzers now growing in greenhouse.)		
300 Juniperus pfitzeriana, XX, 6 to 9 ins.....	25.00	

All above stock shipped bare-root and packed in moss.

Cash with order, please. Packing free.

DAMASCUS NURSERIES Damascus, Ohio

Euonymus patens, large leaf, upright type..... Each

Rooted cuttings, from sand.....\$0.06

From 2-in. pots......10

From 2 1/2-in. pots......15

Euonymus radicans, coloratus......06

Rooted cuttings from sand......15

Pyracantha lalandi, upright, fruiting type......15

From 2 1/2-in. pots......25

From 3-in. pots......18

Pfitzer Junipers, from 2 1/2-in. pots......18

F.O.B. Kansas City, Mo. Cash, please.

GLASSCOCK BROS. Kansas City 4, Mo.

Grafts from pots for May, 1950.

	Per 100	Per 1000
Thuja Columbia (Silvertip).....	\$35.00	
Thuja occidentalis elegantissima.....	35.00	
Thuja occidentalis lutea Geo. Peabody.....	35.00	
Thuja occidentalis pyramidalis.....	35.00	
Thuja occidentalis rosenhalli.....	35.00	
Thuja occidentalis wariana (Siberian).....	35.00	

No packing charges. 25 per cent deposit on all C.O.D. orders. Complete list of liners on request.

VAN DINE NURSERY Wayne, N. J.

R.D. 4, Berdan Ave. Preakness, N. J.

LINING-OUT STOCK.

1-yr. bedded.	Per 100	Per 1000
Taxus hickii.....	\$15.00	\$125.00
Taxus cuspidata.....	15.00	125.00
Taxus hatfieldi.....	17.50	150.00
Taxus brevifolia.....	20.00	200.00
Tsuga canadensis.....	7.00	60.00
2-yr. tr., 4 to 8 ins.....	11.00	100.00
3-yr. tr., 6 to 9 ins.....	16.00	150.00
4-yr. tr., 9 to 12 ins.....	16.00	150.00

Complete list of liners on request.

VERKADE'S NURSERIES Wayne, N. J.

SURPLUS FINISHED STOCK.

	Per 100	Per 1000
Arborvitae, orientalis compacta, 2 to 4 ft.....	\$10.00	
orientalis, 3 1/2 to 6 ft.....	75.00	
Berckmans, 15 to 18 ins.....	22.50	
Juniper, Irish, 3 to 4 ft.....	22.50	
Grafted, in variety, 3 1/2 to 5 ft.....	25.00	

Can still furnish some Taxus.

J. C. BUNCH & SON 3500 Hulman Terre Haute, Ind.

QUALITY LINERS.

	Per 100	Per 1000
American Holly, 4 to 8 ins, tr.....	\$10.00	
Red-flg. Dogwood, 10 to 15 ins, grafts.....	75.00	
Tamarix Summer Glow (rare), 12 to 24 ins.....	22.50	
Azalea kaempferi (named), 2-yr.....	35.00	
Pfitzer Spr. Juniper, 4 to 6 ins, tr.....	22.50	
Franklinia (rare), 8 to 12 ins, 2-yr.....	25.00	

Send for new spring list.

POSSUM HOLLOW NURSERIES 6327 Magnolia St. Philadelphia 44, Pa.

	Per 100	Per 1000
Rooted cuttings from sand.....	\$4.00	
Abelia grandiflora.....	8.00	
Berberis argentea.....	6.00	
Elaeagnus pungens.....	6.00	
Euonymus japonicus.....	7.50	
Euonymus japonicus variegatus.....	6.00	
Gardenia Mystry (hardy).....	6.00	
Lucidum Privet.....	6.00	

Cash, please.

BROSEMER NURSERY CO. Huntville, Ala.

Route 1, Box 155

THUJA TATARICA.

1-yr. Thuja orientalis tatarica, 100 1000

seedlings, 3 to 4 ins.....\$3.00 \$25.00

This arborvitae had nice winter color past season. Withstood 15 below zero. Mostly bluish color. Makes fine, quick-growing Evergreen from seed.

THE HARRIS GARDENS Enterprise, Kan.

AMUR RIVER EVERGREEN PRIVET. Per 100 Per 1000

2-yr., heavily branched, 3 to 4 ft.....\$16.00 \$150.00

2-yr., heavily branched, 4 to 5 ft.....25.00

WAYNESBORO NURSERIES Waynesboro, Virginia

We have several hundred SPECIMEN NORWAY SPRUCE, 10 to 15 ft., well sheared, transplanted three times, \$10.00 each, in the ground. Also some Retinospora, 10 to 12 ft., same price.

SCHNEIDER'S NURSERY Bowie, Md.

SELECT LINERS.

Look for our display and classified ads in the April 15 issue, reprints of which will be sent on request. Your visit is invited. Write for map.

JOHN VERMEULEN & SON, Inc. Neshaic Station, N. J.

COLORADO BLUE SPRUCE.

Highest-quality Liners and Finished Trees. Bare roots and B&B; packed for shipment. Write for complete price list.

H. W. WEBER Weston 93, Mass.

UNROOTED CUTTINGS OF PFITZER JUNIPER. 6 to 10 ins. long, not trimmed. Moss packed; express only, \$10.00 per 1000. Cash with order.

KRONE'S FLOWER SHOP Fort Smith, Ark.

ROOTED CUTTINGS OF PFITZER JUNIPER. dirt bed rooted, 6 to 10 ins. long, strong. \$15.00 per 100; \$150.00 per 1000. Cash.

KRONE'S FLOWER SHOP Fort Smith, Ark.

EUONYMUS FORTUNEI ERECTUS. Ideal hedge plant. Per 100 Per 1000

Potted liners.....\$14.00 \$125.00

MISSION GARDENS Techny, Ill.

2000 White Spruce, Norway and White Pine, Andorra. Ideal for roadside stands.

EVERGREEN NURSERIES Lowell, Ind.

Surplus Stock can be easily and quickly turned into Cash

by listing it in the American Nurseryman Classified Ads.

FRUIT TREES**FRUIT TREES.**

APPLE.	Each	Per 10	Per 100
2 and 3-yr., 11/16-in.....	\$0.60	\$4.50	\$35.00
5 to 7 ft.....	.50	4.00	30.00
2-yr., 9/16-in., 4 to 6 ft.....	.40	3.50	25.00
2-yr., 7/16-in., 3 to 4 ft.....	.75	6.00	50.00
3-yr., 3/4 to 1-in.....			
Anoka.....			
Double Red Delicious.....			
Double Red Stayman.....			
Lowry.....			
Stayman.....			
Afterglow.....			
Carman.....			
Crawford's Early.....			
Dixiegem.....			
Dixied.....			
Fireslow.....			
Gage Elberta.....			
Goldencrest.....			
Golden Jubilee.....			
Halehaven.....			
Heath Cling.....			
J. H. Hale.....			

KIEFFER PEAR.

Each Per 10 Per 100

1 to 1 1/2-in. cal.....\$1.25 \$11.00

3/4 to 1-in. cal......75 6.50 \$60.00

11/16-in. cal......50 4.50 40.00

9/16-in. cal......40 3.50 30.00

LARGE MONTMORENCY CHERRY.

Each Per 10 Per 100

11/16-in. cal.....\$1.00 \$ 9.00 \$ 85.00

3/4 to 1-in. cal......75 6.50 60.00

1 to 1 1/2-in. cal......50 4.50 40.00

PLUM, JUMBO SIZE. Per 10

1 to 1 1/2-in. cal., 7 to 8 ft.....\$16.00

Abundance, Burbank, Red June, Wickson.

Write for prices on other Fruit trees.

WAYNESBORO NURSERIES Waynesboro, Virginia

FRUIT TREES—Continued

First-class Fruit Trees for Spring Shipment.			
Cherry, 2-yr.	Per 10	Per 100	Per 1000
11/16-in. and up.....	\$5.00	\$45.00	\$400.00
9/16 to 11/16-in.....	4.00	35.00	300.00
7/16 to 9/16-in.....	3.00	25.00	200.00
Montmorency, Richmond, Morello.			
Cherry, 1-yr.	Per 10	Per 100	Per 1000
9/16-in. and up.....	\$4.50	\$40.00	\$350.00
7/16 to 9/16-in.....	3.50	30.00	250.00
5/16 to 7/16-in.....	2.50	20.00	150.00
12 to 24 ins.....	2.00	15.00	100.00
Montmorency, Richmond, Morello, Bing.			
Black Tartarian, Lambert, Napoleon, Schmidt, Windsor, Yellow Spanish.			
Pear and Plum, 2-yr.	Per 10	Per 100	Per 1000
11/16-in. and up.....	\$3.00	\$25.00	\$200.00
9/16 to 11/16-in.....	2.50	20.00	150.00
7/16 to 9/16-in.....	2.00	15.00	100.00
Pear — Bartlett, Clapp, Seckel, Kieffer, Duchess. Plum—Abundance, Burbank, Green Gage, Shrop, Damson.			

Cash with order earns free packing. To those with established credit, packing at cost, 30 days net.

ZERFASS NURSERIES Danaville, N. Y.

PECANS.

Stuart, Mahan, Success, Money-maker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Wilson Wonder English Walnuts, Eureka and Tanenashi Persimmons, Everbearing Fig Trees. Write for advance trade list.

ARP NURSERY CO.

Box 867 Tyler, Texas

GROUND COVERS

VINCA MINOR—Hardy Myrtle (Periwinkle). For immediate delivery. Individually made up, long canes up to 18 ins. in large clumps, 15 to 30 leads. Very thrifty, prompt shipment, \$27.00 per 1000 clumps. Any quantity, 2 per cent cash discount if check accompanies order.

H. C. WAUGH

736 Green St. Marietta, Ohio

EUONYMUS RADICANS VEGETUS.

Per 100 Per 1000

Strong rooted cuttings.....\$5.00 \$75.00

PLANE VIEW NURSERY

Newport, R. I.

PACHYSANDRA TERMINALIS.

Strong, 1-yr., field-grown, \$55.00 per 1000.

HILLCREST GREENHOUSES Franklin, Pa.

HARDY PLANTS

PHLOX SUBLATA.

Our Moss Phlox are wonderful this year. Large healthy clumps at \$1.50 per 10 or \$12.00 per 100. Lining-out stock at \$1.00 for 20 liners of one variety. Any amount over 25 of one variety at 4c each. Write for special prices on quantities of 1000 or more.

Alba, pure white
Atropurpurea, rich wine-red
Ilacina, lilac-blue
Rosea, bright rose
Phlox amoena, rose-pink, about 12 ins.

Terms: Cash with order. All plants shipped by railway express.
KNOLL & WALTERS PERENNIAL FARM
Rt. 2, Box 98 Zeeland, Mich.

HARDY PERENNIALS.

Strong, rooted divisions, early spring shipment. 300 at 1000 rate.

	Per 100	Per 1000
Anthemium Moonlight	\$5.00	\$75.00
Hardy Aster		
Beechwood Challenger, bright red	6.00	50.00
Sunset Pink, lavender-pink	6.00	50.00
Helenium Gartsenense, golden-yellow	8.00	75.00
Polemonium Blue Pearl	8.00	75.00
Lychnis viscaria flore pleno	8.00	75.00

PLANE VIEW NURSERY Newport, R. I.

HEAVY, 1-YR., FIELD-GROWN PLANTS.

	Per 100	Per 1000
Carnation Grenadin, mixed	\$3.00	\$27.00
Carnation Grenadin, red or pink	3.50	32.00
Carnation Grenadin, white or yellow	3.50	32.00
Canterbury Bells, mixed, single or double	3.00	
Canterbury Bells, mixed, cup and saucer	3.50	
Russell Lupines, mixed	5.00	

NOVOTNY GARDENS Osage, Iowa

GYPSOPHILA.

Bristol Fairy, grafted.

	Per doz.	Per 100	Per 1000
2 1/4-in. pots	\$3.00	\$20.00	\$180.00

25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

David L. Guenther, prop.

R. R. 2, Box 162 Piqua, Ohio

A-1 PANSY TRANSPLANTS.

All colors plus rainbow color intermixtures, packed in small boxes and then in crates. Perfect bushes in bud, to bloom in September. Transplants, \$43.50 per 1000.

PALACE GARDENS

General Delivery Kalamazoo, Mich.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

SYNDER'S PERENNIAL SPECIALTIES.

Strong, blooming-size plants from open field beds started last spring, unless otherwise described.

25 at the 100 rate.

Achillea filipendulina, yellow, heavy.....	\$4.00
Carnation Grenadin, King of Blacks, heavy.....	4.00
Carnation Grenadin, red, heavy.....	4.00
Carnation Grenadin, white, heavy.....	4.00
Carnation Grenadin, mixed, heavy.....	4.00
Coreopsis adriaticula nana, dwarf.....	7.00
Coreopsis Double Sunburst, semidouble.....	3.00
Daisy Double White Swan, fully double.....	4.00
Dianthus barbatus Midget, double, mix.....	3.00
Dianthus deltoideus erecta, red, neat.....	4.00
Dianthus Loveliness, dainty mauve.....	3.00
Dianthus eximia, Plumy Bleeding Heart.....	4.00
Dictamnus albus, 1-yr., blooms 3rd yr.....	5.00
Dictamnus, pink, 1-yr., blooms 3rd yr.....	5.00
Eupatorium celestinum, divisions.....	3.00
Euphorbia corollata, pure white filler.....	3.50

All July-sown, therefore light stock.

Carpatica alba, white.....	3.00
Carpatica Blue.....	3.00
Carpatica Dwarf Hybrids, neat, compact.....	3.00
Cullenmore & Landon's Hybrids.....	3.00
Rotundifolia, Bluebells of Scotland.....	3.00

DELPHINIUM.

All August-sown, therefore light stock.	
Belladonna Improved, light blue.....	3.00
Belladonna Improved, deep blue.....	3.00
Blackmore & Landon's Hybrids.....	4.00
Lamarine, finest deep blue.....	3.50

GAILLARDIA.

All July-sown, will bloom well this summer and early fall.	
Aurea, pure, pure yellow, 95 per cent true.....	3.00
Burgundy, wine-red, 70 per cent true.....	3.00
Goblin, dwarf, red and yellow bicolor.....	3.00

GYPSOPHILA.

All ideal size for summer blooming.	
Odhamall, pink shades, late blooming.....	3.50
Pacific, pink shades, very late.....	5.00
Paniculata, misty, single white.....	2.50
Repens rosea, border or rock plant.....	3.50

HEUCHERA SANGUINEA.

From flats sown March, 1949; grown outside under latt since June, 1949.

Bright red..... 4.00

IBERIS SEMPERVIRENS.

Little Gem, dwarf, true stock, diva..... 4.00

Snowflake, true, R. C. from open frames..... 3.50

All sure to bloom well this summer.

Callilepis, large spike, 3rd early.....	3.00
Lonsifolia punctata, 2-ft. spikes, Sept.....	4.00
Pycnostachya, early hybrids, 3 ft.....	3.00
Pycnostachya Hybrids, midseason.....	2.50
Spicata, 30-in. spikes, July, earliest.....	3.00
Scariosa September Glory.....	5.00

Helopsis pitcheriana, heavy plants.....	3.00
Lavandula, Unstated Strain, earlier.....	4.00
Lilium tenuifolium, 2-yr. bulbs.....	2.50
Lilium narbonneense Heavenly Blue.....	5.00
Lilium flamm compactum, dwarf yellow.....	3.00
Lychnis chalcidonica, vivid scarlet.....	3.00
Nepeta mussini, dwarf, lavender bloom.....	3.00
Oenothera missouriensis, heavy plants.....	5.00

PLATYCODONS, DOUBLE BLUE.

Rich blue, double blooms of great substance. Excellent, long-lasting cut flower, all "balloons" opening into perfect flowers after cutting. All true colors, all blooming size.

2-yr. stock, \$8.00 per 100; 1-yr., \$5.00 per 100.

PLATYCODONS, DOUBLE WHITE.

Pure, glistening white form of the above, blooms all summer. True stock.

2-yr. 16.00

PLATYCODONS, SHELL-PINK.

Red veins, no trace of blue, 2-yr..... 5.00

PLATYCODONS, SINGLE.

Grandiflorum, blue, true stock, 2-yr..... 3.00

Grandiflorum, white, some roses, 2-yr..... 3.00

Maries, blue, dwarf, deep color..... 5.00

Pyrethrum, choice double, from seeds..... 7.00

Pyrethrum Robinson's Giant Hybrids..... 5.00

Shasta Alaska, July-sown, bloom in July..... 2.50

Saponaria ocyroides, Solandens, trailer..... 4.00

Stachys dumosa, for drying or dyeing..... 3.50

Rudbeckia purpurea (Purple Coneflower)..... 2.50

Thermopsis caroliniana, heavy plants..... 6.00

Shipment now or when needed.

Cash with order, please.

E. J. SNYDER West Milton, Ohio

BLEEDING HEARTS.

Dicentra spectabilis, 3 to 5-eye.....	Per 100 \$25.00
Dicentra spectabilis, 5 to 8-eye and up.....	35.00
Dicentra eximia, 3 to 5-eye.....	15.00
Dicentra eximia, 5 to 8-eye and up.....	20.00

J. HENDRIKS, Grower Portage, Mich.

SURPLUS DELPHINIUMS.

10 pounds of Pacific Hybrids, mixed and separate varieties. Also many other varieties of Perennials and Pansy seeds. Write for special list.

MONARCH PLANT FARMS

Kalamazoo 99, Mich.

PERENNIALS.

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md

America's Best Source for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

2 1/4-IN. PERENNIALS — Heavy, green-

house-grown, hardened in coldframes. Pacific Hybrid Delphinium in named varieties; Marconi, Diener's Double and Conqueror Shasta Daisies; Grenadin Carnations; Robinson's Pyrethrum, 2 1/4-in. Radio Red Geraniums for bedding. All \$10.00 per 100.

RIEMENSNIJDER'S GARDENS,

Sandwich, Ill.

HARDY CHRYSANTHEMUMS—300 kinds,

field plants or rooted cuttings from 10 and 4c up. Dianthus, Homelands, Newport Pink, Cerise and Blood-red, \$4.00 per 100. Morden Lythrum, \$15.00 per 100; H&E Daisies, divisions, \$15.00 per 1000. Minimum order, \$3.00.

HILLVIEW GARDENS, Fort Madison, Iowa.

SEEDS OF HARDY PERENNIALS.

700 varieties and species.

Offered in our special wholesale price list of perennial seeds, plants and cuttings.

REX D. PEARCE, Dept. N, Moorstown, N. J.

HARDY FERNS.

Ostrich, Clayton, Lady and Maidenhair,

\$7.00 per 100

STRAND NURSERY CO.

Taylor Falls, Minn.

HOLLY

ILEX OPACA, Large, old, XXXX specimens, 10 to 14 ft. high, 9 to 14 ft. broad; dense over-all. Wonderful root systems in clay; no taps. Balled, platformed and loaded; 1 to 5 tons each. Expert balling by foreman with 25 yrs' experience. Well berried females, \$65.00 each; \$135.00 each, 25 per cent less. Rooted cuttings from best variety types; guaranteed female (berry-bearing); 1 to 2-yr., knocked from 3 to 7-in. clay pots; 4 to 8-ins.; \$25.00 per 1000, 8 to 12 ins., \$50.00 per 1000. P.O.B. Ask for booklet "XEB" Holly.

EARLE DILATASH, Holly Specialist,

(On Rt. 25) Robbinsville, N. J.

ROSEBUSHES

FIELD-GROWN ROSES.

NO. 1 GRADE.

Excellent quality in perfect dormant condition.

HYBRID TEAS, RED

Per doz. Per 100

California Centennial.....\$13.00 \$100.00

Heart's Desire (Pat. No. 507)..... 11.00 75.00

Nocturne (Pat. No. 713)..... 11.00 75.00

San Fernando (Pat. No. 785)..... 13.00 100.00

Will Rogers (Pat. No. 256)..... 8.50 65.00

HYBRID TEAS, PINK

Babe Ruth (Pat. applied for)..... 13.00 100.00

Capistrano (Pat. applied for)..... 16.25 100.00

Doug. MacArthur (Pat. No. 531)..... 11.00 75.00

Pink Radiance..... 7.00 50.00

Sterling (Pat. No. 713)..... 11.00 75.00

Tallyho (Pat. applied for)..... 13.00 100.00

The Doctor..... 7.00 50.00

Tom Breneman (Pat. ap. for)..... 13.00 100.00

HYBRID TEAS, YELLOW

Butterscotch (Pat. No. 613)..... 11.00 75.00

Mrs. E. P. Thom..... 8.50 65.00

Phyllis Gold..... 7.00 50.00

HYBRID TEAS, BICOLOR

Apricot Queen (Pat. No. 464)..... 8.50 65.00

Countess Vandal (Pat. No. 38)..... 9.50 70.00

Forty-nine (Pat. No. 732)..... 12.00 100.00

Hill Top (Pat. No. 525)..... 11.00 75.00

Taffeta (Pat. No. 716)..... 11.00 75.00

FLORIBUNDA ROSES

Bright Eyes (Pat. applied for)..... 8.50 65.00

Cheerio, pink, shading to rose..... 7.00 50.00

Crown of Jewels (Pat. No. 149)..... 8.50 65.00

Lovely coral-rose..... 7.00 50.00

Improved Lafayette, deep red..... 7.00 50.00

Pink Rosette (Pat. applied for)..... 11.00 75.00

White Finch..... 8.50 65.00

POLYANTHA ROSES

Cameo, shell-pink and salmon..... 7.00 50.00

Red Ripples, intense red..... 7.00 50.00

Sparkler, deep crimson..... 7.00 50.00

HYBRID PERPETUALS

Arrillaga, big, glowing pink..... 7.00 50.00

George Arends, large pink..... 7.00 50.00

Mount Everest, crystalline-white..... 7.00 50.00

Improved Cecile Brunner, peach-pink changing to salmon..... 8.50 65.00

SINGLE HYBRID TEAS

Dainty Bess, shell-pink..... 7.00 50.00

White Wings (Pat. No. 860)

ROSES, 2-yr., No. 1, field-grown.

\$4.50 per 10; \$40.00 per 100.

HYBRID TEAS

Caledonia	K. A. Viktoria
Condesa de Santiago	Mrs. Chas. Bell
Edith Nellie Perkins	Mrs. Du Pont
Editor McFarland	Pink Radiance
Etoile de Hollande	Red Radiance
Golden Charm	Pink Hoover
JOYANTHUS	Tallman
POLYANTHUS	Golden Salmon, Ideal.
CLIMBERS	American Beauty.

WAYNESBORO NURSERIES
Waynesboro, Virginia

ROSES

See our display ad on Roses, page 37 of this issue.

OSARK PLANT FARMS, Inc.
Seminole Drive Springfield, Mo.

SEEDS

SAXIFRAGA SEEDS.

Caespitosa, 12 ins.; Hyb. Purple Robe, 8 ins.; Album, 6 ins.; Spurium, 6 ins.; Coccineum, 6 ins. Tr. Pkt., 50c; 1/2 oz., \$1.25; 1/4 oz., \$2.25.

SEDUM SEEDS.

Acre, 2 1/2 ins.; Alzoon, 5 ins.; Selskianum, 6 ins.; Album, 6 ins.; Spurium, 6 ins.; Coccineum, 6 ins. Tr. Pkt., 50c; 1/2 oz., \$1.25; 1/4 oz., \$2.25.

SEMPERVIVUM SEEDS.

Perennial Species, mixed. Tr. Pkt., 50c; 1/2 oz., \$1.50.

GERMANIA SEED CO.

6332 N. California Ave. Chicago 45, Ill.

SHRUBS and TREES

LINERS FROM BEDS—Twice transplanted: Azalea, clipped to shape, Hindsleyi, Pink Pearl, Ledifolia Alba, 8 to 8 ins., 40c; 10 to 12 ins., 50c. Buxus sempervirens, 6 ins., 10c. Gardenia fortunei, 15 to 18 ins., 40c. Juniper, Andorra, communis and sabina, 8 to 10 ins., 20c. Von Ehron, bushy (nice), 12 to 15 ins., 40c. Ligustrum lucidum, grafts slightly cut back, 18 to 24 ins., 40c; macrophyllum and m. aureum, well branched, 2 to 3 ft., 50c. Raphiolepis ovata and indica, 8 to 10 ins., 15c. Thuja aurea nana and bakeri, 8 to 10 ins., 15c.

POTTED LINERS—Ready for beds or field, 2 1/2 and 3 1/2-in. pots. Azalea Hino, Ledifolia, Alba, Pink Pearl, 15c. Buxus sempervirens and suffruticosa, English Ivy, Gardenia fortunei, Nandina, 10c. Juniper, Andorra, communis, ch. stricta, Pfitzer and Von Ehron; Raphiolepis ovata and indica; Thuja bakeri and Bonita, 15c. Viburnum tinus, 15c. Thuja aurea conspicua and Bonita, from seeds, 10c.

TREE SEEDLINGS—Ginkgo (salsaburia), 4 to 6 ins., 6c; 6 to 8 ins., 8c; 8 to 12 ins., 12c. Aleurites fordii (Tung Oil) and Sterculia adiantifolia (Varnish Tree), 6 to 8 ins., 10c; 12 to 15 ins., 20c; 18 to 24 ins., 30c; 2 to 3 ft., 40c; 3 to 4 ft., 60c; 4 to 6 ft., \$1.00. Japanese Privet, 12 to 15 ins., from seedbed. Seeds selected from beautiful specimens.

BIRMINGHAM NURSERIES

Birmingham, Ala.

WHITE ASH.

(Fraxinus americana.)

Handsome, fast-growing trees with straight trunks, symmetrical heads and good roots.

Each Each
6 to 8 ft., 1 to 1 1/2-in. cal. \$1.25 \$1.00
7 to 9 ft., 1 1/2 to 2-in. cal. 1.75 1.50
8 to 10 ft., 2 to 2 1/2-in. cal. 2.50 2.25

JASMINE PRIM.

The handsome, large-flowered, spring-blooming variety, not hardy north. Heavy plants.

3 to 4 ft.50
BLAEAGUS PUNGENS COMPACTA.
A compact type of evergreen clausgnus.

Nice bushy plants at a bargain.
2 to 3 ft. B.B.1.75 1.50
AMERICAN ELM, ILEX OPACA, JUNIPERUS VIRGINIANA, VITEA, CONCORD GRAPE and many other items of quality are in our wholesale list. Send for copy today.

All prices F.O.B. Exmore, packing additional.
THE TANKARD NURSERIES
Exmore, Va.

SHRUBS.

Per 10 Per 100
Abelia grandiflora, 2 to 3 ft. \$10.00 \$90.00
Althaea, asst. colors, 4 to 5 ft. 7.50 65.00
Crape Myrtle, purple, red, white, 18 to 24 ins. 5.50 50.00

2 to 3 ft. 7.00 65.00
Hydrangea French Blue, 2-yr. 5.00 45.00
Philadelphus coronarius, 4 to 6 ft. 5.00 45.00
Snowberry 2 to 3 ft. 3.00 25.00
Spiraea billardi, 3 to 4 ft. 4.50 40.00
Vitis macrophylla, 3 to 4 ft. 5.00 45.00
Weigela Eva Rathke, 3 to 4 ft. 4.50 40.00

WAYNESBORO NURSERIES

Waynesboro, Virginia

PINK DOGWOOD.

30 to 36 ins., B.R. \$1.75 each
24 to 30 ins., B.R. 1.40 each
18 to 24 ins., B.R. 1.00 each

PINK DOGWOOD, liners, dormant, budded fall of 1949, 25c each.
WHITE DOGWOOD.
3 to 4 ft., B.R.60 each
2 to 3 ft., B.R.40 each

THE HAWKERSMITH NURSERY

Winchester, Tenn.

SHADE TREES. Each Per 10

Elm, American, 8 to 10 ft.	\$2.25	\$21.50
Elm, American, 10 to 12 ft.	2.65	25.00
Gum, Sour, 4 to 6 ft.	1.75	16.00
Gum, Sour, 6 to 8 ft.	2.50	23.50
Hackberry, 8 to 10 ft.	1.75	16.00
Hackberry, 8 to 10 ft.	2.25	21.50
Hackberry, 8 to 10 ft.	3.00	27.50
Maple, Silver, 6 to 8 ft.	1.35	12.50
Maple, Silver, 8 to 10 ft.	1.75	16.00
Oak, Red, 8 to 10 ft.	3.75	35.00
Oak, White, 6 to 8 ft.	3.25	30.00
Oak, White, 8 to 10 ft.	3.75	35.00
Oak, Willow, 6 to 8 ft.	3.25	30.00
Oak, Willow, 1 1/2 to 1 1/2-in. caliper.	3.75	35.00
Plane, Oriental, 6 to 8 ft.	2.00	18.50
Poplar, Lombardy, 8 to 10 ft.		
Poplar, Lombardy, 10 to 12 ft.	7.50	
(\$100.00 per 100)		
Waynesboro Nurseries		12.00

Waynesboro, Virginia

LANDSCAPE MATERIAL.

Prices each, in the ground.

100 American Holly, 10 to 15 ft.	\$15.00 to \$25.00
40 Chamaecyparis plumosa, 12 to 15 ft.	\$15.00
100 Chamaecyparis pisifera aurea, 12 to 15 ft.	\$10.00 to \$25.00
35 Chamaecyparis filifera aurea, 8 to 9 ft.	\$20.00
15 Chamaecyparis filifera, 8 to 9 ft.	\$15.00
30 Hemlock, 18 to 20 ft.	\$15.00 to \$25.00
50 Pin Oak, 5 to 7 ins.	\$10.00
200 Oriental Plane, 4 to 6 ins.	\$10.00
100 Elm, Chinese and American, 6 to 9 ins.	\$10.00
25 White Dogwood, 10 to 12 ft.	\$10.00
STEELE'S POMONA NURSERIES	
Palmyra, N. J.	

LINING-OUT STOCK.

Euonymus coloratus, 1-yr. transplants.	\$12.00
Euonymus carlesii, 1-yr. transplants.	10.00
Euonymus radicans, 1-yr. transplants.	10.00
Euonymus radicans, well rooted.	7.50
Euonymus carlesii, well rooted.	7.50
Euonymus coloratus, well rooted.	8.00

HARDWOOD CUTTINGS.

Handmade, 7 ins.	Per 1000 \$3.50
Amur River North Privet.	3.50
Lombardy Poplar.	3.00

Cash, please. No charge for packing.

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Rt. 4 Ottawa, Kan.	
Russian Olive Seedlings	Per 1000
6 to 12 ins., 1-yr.	\$10.80
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Write for special prices on large orders.

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CALIFORNIA PRIVET.

Each	Each
Per 10	Per 100 per 1000
18 to 24 ins. \$0.50	\$4.50 \$0.40
24 to 30 ins.60	5.50 .50

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9906 Carnegie Ave. Cleveland 6, Ohio

CHINESE CHESTNUT TREES.

Pure, hardy northern strain, 2-yr. trans.	Per 10
2 to 3 ft. \$7.50	
3 to 4 ft. 10.00	
4 ft., 11/16-in. cal. 15.00	

WHITFORD NURSERY

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LOMBARDY POPLARS.

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ASPARAGUS ROOTS.
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Washington, strong, well graded.

Per 100 Per 1000

1-year \$1.50 \$12.00

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250 at 1000 rate, 55 100 1000

3-yr., heavy \$1.15 \$3.80 \$29.00

2-yr., No. 175 2.30 17.50

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Stevensville, Mich.

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GRAPEVINES.	Per 25	Per 100	Per 1000
Concord, 2-yr., No. 1	\$2.75	\$8.50	\$70.00
Concord, 1-yr., No. 1	2.25	7.00	55.00
Fredonia, 2-yr., No. 1	2.85	9.00	75.00
Fredonia, 1-yr., No. 1	2.25	7.50	60.00
Niagara, 2-yr., No. 1	3.25	10.50	85.00
Niagara, 1-yr., No. 1	2.50	8.50	70.00
Delaware, 2-yr., No. 1	3.75	12.00	100.00
Delaware, 1-yr., No. 1	2.65	9.00	75.00
Agawam, 2-yr., No. 1	4.00	13.50	115.00
Agawam, 1-yr., No. 1	3.00	9.50	80.00
Caco, 2-yr., No. 1	4.50	15.00	135.00
Caco, 1-yr., No. 1	3.50	11.00	95.00

All other fruit plants. Send for list.

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10,000 Newburgh R. Raspberries, Per 1000

No. 1 heavy \$38.00

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No. 1 40.00

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2000 Red-flowering Quince, 2-yr. well rooted cuttings, 18 to 24 ins., \$12.00 per 100; \$100.00 per 1000.

5000 Delphinium P. H. mix. Best strains in existence, \$22.00 per 100; \$200.00 per 1000; extra-heavy or potted, \$26.00 per 100; \$230.00 per 1000.

2000 Lupine, 2-yr. trans. Finest color; mixed Russell strain, \$200.00 per 1000.

WANTED—Gladoli; Roses; Snowball; Viburnum carlesii and burkwoodii; Dahlia; Peony; many varieties of mums, hardy early strains and cushions; Phlox, named varieties only and must be dark-foliaged; Berckmans Arboretum, and other stock.

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FLATS, COMBINATION and BULB BOXES, shipped knocked down or made up, per 100. F.O.B. Kansas City, Mo.

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16x12x2 1/2 ins. \$17.00 \$20.00

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20x14x2 1/2 ins. 23.00 26.00

22x15x3 1/2 ins. 28.00 31.00

Other sizes quoted on request. Orders of 500, deduct \$1.00. Orders less than 100, add 50c. Special prices on 1000 or more. Bottoms and sides 1/2-in. ends 1/2-in. Good grade lumber. Check must be attached to order. Prompt delivery.

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18x6x5 ins. 18.00 20.00

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We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

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3 1/2 x 5 ins., notched, not wired.	\$2.50
3 1/2 x 5 ins., wired, copper.	\$3.00

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Sq. Ft.	Length and	Price
Unit Heated Watts	Volts No. Units	
A 20 200 110 1- 60 ft.		\$13.48
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9-in. diameter	Each
10-in. diameter	\$2.80
11-in. diameter	3.15
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MINNESOTA WHITE CEDAR FLATS.

12x16x2 1/2	\$18.25 per 100
14x20x2 1/2	22.00 per 100
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Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.
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Horticultural, poultry litter, sphagnum packing moss. Veneer-encased bales; standard half and quarter sizes. Bulk car shipments. Samples and prices on request.

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Vinca minor, Bowles' variety.
Hall's Honeysuckle.
Hedera helix baltica.

Quote 1000 rate.
BROUWER-HUTT NURSERIES
2568 Main St. Glastonbury, Conn.

The trade's market place—
The ads in the American Nurseryman.

SOUTHWESTERN NEWS.

Harland F. Ormsbee, Grand Junction, Colo., has changed the name of his business to Ormsbee's Inter-mountain Nursery.

Kenneth Havel has been appointed assistant to Dr. Roger Smith, state entomologist of Kansas. He will be in charge of nursery inspection in the northern half of the state.

The acreage of the Chandler Landscape & Floral Co., Kansas City, Mo., has been increased by the recent purchase of eighty acres of land adjoining the present nursery on the northwest. The nursery is in Kansas.

The name of F. M. Emhoff Greenhouse, 1345 South Fort avenue, Springfield 3, Mo., has been changed to Wickman Gardens, Inc. The business has been under the same ownership and management for the past five years.

About twenty-five members of the Kansas City Association of Nurserymen met for their regular monthly meeting at the Wagon Wheels restaurant at Overland Park, Kan., the evening of April 11. Plans were completed for the association's garden display at the Kansas City home show, held April 15 to 22.

The Dymacek Gardens, Caldwell, Kan., have been sold to Irvin R. Atkinson.

Conard's Plant & Vegetable Farm, Longmont, Colo., has been changed to Conard's Gardens. The address is Eleventh and Main streets.

Jesse Blair, formerly operator of the B & G Nursery, Newton, Kan., is now in the employ of the W. W. Wilmore Nursery, Denver, Colo.

Roadside improvement contracts in Kansas have been awarded by the state highway commission to the following: Sutton Nursery & Landscape Co., Independence, Johnson county, \$18,557.50, and Gove county, \$6,375; J. M. Hedges Co., Coffeyville, Marshall county, \$5,741; Tole Landscape Co., Independence, Shawnee county, \$22,790.80, and Cook & Cone, Ottawa, Smith county, \$5,333.25, and Decatur county, \$1,769. J. P.

AMERICAN NURSERYMAN

HONORS FOR DR. HUME.

At the annual convention of the American Pomological Society in February, Dr. H. H. Hume, professor emeritus and former dean of the college of agriculture at the University of Florida, was one of four eminent horticulturists who received the Wilder medal for distinguished service to horticulture.

Dr. Hume, who has long been known for his work with azaleas, was also honored when a new white-flowered azalea variety was named Dean Hume. It was one of ten new varieties recently announced by the United States Department of Agriculture.

ORGANIC GARDENING.

[Concluded from page 6.]

century. Many other assertions are less misstatements than they are half truths or distortions of the truth. When formulas for compost piles become as complicated as old wives' herbal remedies, the experienced plantsman and tiller of the soil loses patience.

Discussion of organic gardening, no doubt, has attracted more attention from home gardeners to the soil, so that they realize that crops of either flowers or vegetables are not to be had from old, worn-out land, that is, as some say, out of tith. The use of peat and other modifiers to correct the composition of the soil, the making of compost piles, the application of fertilizers of the right kind and in the right quantities, the increasing practice of soil testing and a better understanding of the basic factors that produce good crops, are all welcomed by nurserymen because of the greater success obtained with the plants they sell. The sensible aspects of organic gardening will be found beneficial even if their unscientific assertions must be deplored.

CARRYING on the Evergreen Farm, Petoskey, Mich., which was founded by her late father, C. M. Grossman, is Gertrude Hinds, whose mailing address is Box 29.

THE 10-acre Wilmington's Nursery being started at 932 North Madison street, Woodstock, Ill., by Floyd E. Wilmington will have a complete line of general nursery stock.

ASSOCIATED with his brother in the nursery business for many years at Tampa, Fla., Marshall J. Meyer has opened his own firm, the Garden Walk Nursery, at 321 South El Monte avenue, Temple City, Calif.

GOOD NEWS the GRAVELY Model D Tractor is BACK— *Better than Ever!*

Yes... the time-proved, Narrow-Row Cultivator, favorite of Commercial Growers for 27 Years, is back — IMMEDIATE DELIVERY



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Please send me FREE Literature and Prices on The Gravelly Model D:

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HOLLY SOCIETY MEETING.

[Continued from page 10.]

who extended to the society a hearty welcome to the expanding campus of the University of Maryland. Touching on the perplexities facing the agriculturists in this day of vast food and fiber surpluses, Dr. Kemp complimented the holly society for its worth-while objectives.

As a special treat for the ladies, Miss Helen Irene Smith, home management specialist, University of Maryland extension service, talked briefly on the use of holly as an artistic motif in home furnishings. During her talk Miss Smith displayed many examples of rural homemaking art, such as hand-painted neckties, fine embroidery work, block-printed scarfs and hand-painted china, all featuring sprigs or sprays of berried holly, and also small items carved from holly wood.

English Holly.

H. Gleason Mattoon, consulting forester and holly nurseryman, Narberth, Pa., presented an interesting talk on his twenty years of experience and observation on holly in the north-eastern United States. The night of February 9, 1934, is an important date for consideration in making studies of holly hardiness, he said, for that night

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3 x 3 x 4 ins.	5.20
4 x 4 x 4 ins.	6.00

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26. Pruning—How and When to Do It
27. Transplanting Operations
28. Landscape Maintenance
29. Public Grounds—Design
30. Surveying—Scale—Orientation
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39. Beauty—What It Is
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41. Texture of Plants and Materials
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50. Final Problem—Landscape Design

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VETERAN ☐ NONVETERAN ☐

the temperature around Philadelphia dropped to a low of 16 degrees below zero. Many fine hollies were killed or badly damaged, as were other plants ordinarily considered hardy to that locality. It is Mr. Mattoon's belief that any holly which survived that fateful period should distinctly be considered as hardy. To date he has located well over 400 English hollies in Connecticut, New York, New Jersey, Pennsylvania and Ohio which he places in this class. Most of these trees have one or more trunks eight inches in diameter or larger. Some are known to be 50 years old; their origin is open to conjecture.

In his study of hardiness, Mr. Mattoon noted that both American and English hollies seem to suffer less injury when planted with exposures from northeast to southeast, rather than where they suffer the full heat of the afternoon sun. This may be of vital importance in late winter and early spring where temperatures on sunny sides of buildings may vary as much as 78 degrees in a 10-hour period.

Mr. Mattoon mentioned that considerable confusion exists in the nomenclature of English hollies in the United States, and some nurserymen are selling incorrectly named plants. Because of the many distinct varieties already named, it seemed important to learn the original names of these English hollies. In cooperation with the Morris Arboretum, at Philadelphia, Mr. Mattoon was able to secure accurate identification of twenty varieties of *Ilex aquifolium*, six hybrids of *aquifolium* and *perado*, or *platyphylla*. Four varieties of *Ilex platyphylla* were identified through the Royal Botanic Garden, at Kew, England. Fifteen of these were on display, each showing distinct enough characteristics that they could be told apart. Each specimen came from a tree which has thrived in the northeast for over twenty years. English hollies will grow over a surprisingly wide range if the proper sites are chosen.

In the discussion that followed it was reported that English hollies can grow three feet a year if the new wood ripens by September. Potash and phosphate help to develop hardiness, and root-pruning in June helps harden wood by August. The blooms of English holly are not so susceptible to frost injury as are those on the tender new shoots of *Ilex opaca*. Plants from rooted cuttings of hardy hollies show little variation in hardiness, whereas seedlings do exhibit wide variation.

Daniel Fenton, New Jersey Silica Sand Co., Millville, N. J., talked on the developments and experiments at

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Francis A. Robinson, president, is a partner of Robinson & Parham, member of American Association of Nurserymen in active professional landscape practice for 39 years.

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his company's holly orchard. He used colorful Kodachrome slides to show the actual harvest of heavily berried sprays for Christmas decorations.

Business Meeting.

Dr. Ronald Bamford, associate dean of the college of agriculture, University of Maryland, and business manager of the American Botanical Society, welcomed the Holly Society of America to the college for the business meeting the second day. He told of the great part that plants play in our spiritual life and mentioned the university's expanding interest in the field of horticulture. Under actual construction there now are a new plant science laboratory building and greenhouses totaling 27,000 square feet of space. Planned for the future is a 10-acre plant materials garden to be as fine as any in the country.

Secretary-treasurer Charles A. Young, Jr., Bergner Mansion, Gwynn Falls Park, Baltimore, Md., reported that the society now has over 225 members, of which thirty-six are of the sustaining class. In appreciation for their fine work during the year the society, by resolutions, expressed its gratitude to the secretary-treasurer, to Vice-president Harry W. Dengler and to the following committee chairmen: Arboretum, Wilfrid Wheeler, Falmouth, Mass.; insect, Dr. Clyde C. Hamilton, New Brunswick, N. J.; variety selection, Dr. Charles C. Connors, New Brunswick; disease, Dr. G. F. Gravatt, Beltsville, Md.; soils, Dr. O. W. Davidson, New Brunswick, and membership, T. H. B. Boothe, West Orange, N. J.

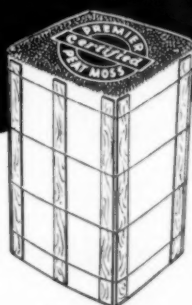
Research on Diseases.

Samples of leaf spot on *Ilex cornuta* were exhibited. Researchers at the University of West Virginia were reported to be studying three organisms suspected of causing black spot on holly. In Louisiana, Georgia, Washington and Oregon leaf spot on holly is also being investigated. Dr. Gravatt mentioned the difficulty in preventing the spread of plant diseases and urged members and nurserymen not to sell or ship holly cuttings or plants with spotted or infected leaves.

Daniel Fenton reported on plans at the New Jersey agricultural experiment station to spray trees with chemicals in an effort to secure dark green foliage on heavily berried female trees. Dr. W. R. Robbins, on the station's staff, was reported to be conducting sand culture experiments on the nutritional requirements of holly. The results of his studies should be known in a short time.

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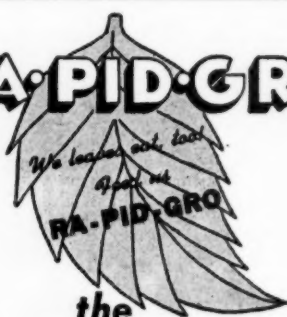
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maleic hydrazide to retard the blossoming of hollies to reduce frost injury. These are to be run at several concentrations about three weeks before normal blossoming at the orchard of the society's president, C. R. Wolf, at Millville, N. J.

A lively discussion centered around the advisability of rating various selections of American hollies. Dr. C. H. Connor's score card was mentioned as being useful in comparing various named holly varieties. It was felt that the rating of superior hollies at this time might be exceptionally difficult and that gradually the better trees will prove their worth.

A brief progress report was given on the efforts of the society's committee to influence the state of New Jersey in preserving for future generations the unusual holly forest at Sandy Hook.

West Virginia's Program.

Roger Pease, hillcultivist, West Virginia agricultural experiment station, Morgantown, stated that the major portion of his state's hillculture program is to find crops that are lying idle or are not intelligently utilized in order to assist financially the small West Virginia farmer. At present, such crops include holly, native nuts and maple trees for syrup.

The holly program is localized in Nicholas county and started with a small cooperative in 1943. In 1946 this group marketed 2,000 holly wreaths and 3,000 boxes of spray holly. Marketing problems soon presented themselves. Leaf miner injury, tar spot, unsightly leaf blotches, lack of sheen and the frequent delivery of holly in poor condition handicapped the sale of the West Virginia product in distant markets in competition with holly from other sources. In local markets stolen or unscientifically harvested holly undersold that more wisely cut by the cooperative group.

Various types and treatments of waxes which were tested to improve the sheen and keeping qualities of the cut sprays gave variable results. Some spotted the leaves, and another did not dry satisfactorily if the temperature was lower than 70 degrees.

Several selections of excellent hollies have been made in West Virginia, and a technique for propagating them has been worked out by Dr. E. H. Tryon, of West Virginia University, and Wilmer Steiner, Soil Conservation Service, Beltsville, Md. It is anticipated that plantings of these improved varieties will increase the supply of a more attractive product able to stand competition successfully in distant markets. Various

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types of packaging methods are on trial. Vandalism and the sale of stolen holly are problems needing solution.

Gift to New Zealand.

The morning program ended with a brief ceremony in which one male and two female hollies were presented to the city of Auckland, New Zealand. These are to be planted in an arboretum surrounding a \$4,000,000 War Memorial Museum building at Auckland and are part of a plan to include trees representative of the countries which were New Zealand's allies during the past two World wars.

The society's president gave a brief history of this unusual project and then introduced Air Commodore James L. Findlay, air attache of the New Zealand embassy at Washington, D. C., who was present to accept the hollies on behalf of the citizens of Auckland. President Wolf presented the gift.

Col. John C. Pitchford, dean of the college of military science and tactics, University of Maryland, acted as escort for Commodore Findlay during the ceremony.

Growing Hollies.

Following an informal lunch at the University of Maryland's cafe-

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teria, Miss Helen Irene Smith repeated her talk on holly decorations at the request of the ladies who were unable to be present the previous evening.

Discussing holly growing, Gustaf Malmberg, Malmberg Greenhouses & Landscape Service, Manheim, Pa., stated that to grow good cuttings you must start with trees in healthy condition. If cuttings from them do not root readily something is wrong with the trees and no trouble is too great to find out what is wrong. Cuttings from well mulched trees root faster and better than those from unmulched trees.

With holly it always pays to take a heel cutting. For planting unheated greenhouses or coldframes, July and August appear to be the best time to take them, while the period from October to December is best if they are to be set in heated propagating structures. Temperatures of around 50 to 55 degrees seem desirable, since it takes time and work to harden off plants raised at higher temperatures.

The most popular type of grafting is by the veneer method. This is done in winter or spring. The scion must be dormant and the understock growing. Grafted plants reach salable size quicker than those from cuttings, said Mr. Malmberg. Grafted plants were exhibited, and a demonstration was given of exactly how the grafting was done.

Hollies are not too particular about soils, since they are found growing naturally in heavy clays, limestone and very sandy soils. Neutral to slightly acid soils seem about right. A good mulch both in summer and winter is most beneficial. Composts of oak leaves, sawdust, manure, fertilizer, cottonseed meal, tobacco stems and bone meal are all excellent.

Plant hollies with care. Do what is right for the trees when you plant them, admonished Mr. Malmberg, and then you will not be required to do this later on. Dig the hole three times larger and one foot deeper than necessary. Fill the hole with peat moss plus fertilizer, rotten sawdust, leaf mold or mushroom manure. Leave the surface saucer-shaped and apply chemical fertilizer before watering. If the earth ball should be broken during transplanting, prune the damaged roots and give the top of the holly a fair amount of pruning.

Holly makes a nice hedge, but seedling stock should not be used for this purpose. Plant only one variety in a hedge so it will be uniform in appearance and growth habits.

The north and perhaps the east

sides of buildings are the best places to plant hollies, Mr. Malmberg stated. Give them ample space to grow. It is also a good idea to shade newly planted trees in the late winter and early spring.

Harry W. Dengler was chairman of the program committee, which consisted of Mr. and Mrs. John McNair, Mr. and Mrs. Charles A. Young, Jr.; Miss Helen Irene Smith, Charles Oliver, Wilmer Steiner, Jack Bentley, John Creech, Stewart McLean, all of Maryland, and Daniel Fenton, of New Jersey.

PLANT NOTES.

[Continued from page 18.]

cliente, one with an appreciation of the finer things of life, one that values plants for their charm rather than their gaudiness and one that is ready to give a little special care to the plants it purchases, then there will be no trouble in selling gold-threads.

They are found naturally in moist shady places and, according to experience in trials here, in an acid soil. They should be given similar treatment in the garden. They may be propagated from divisions in early spring, care being taken to see that the divisions receive no setback, especially until they are thoroughly established. Or they may be grown from seeds sown as soon as ripe.

Physostegia.

An Iowa reader, while asking for a note on physostegia, says that during his few years in the nursery business the ordinary form of the plant has been his best seller and wonders if there are other kinds.

I suspect he means by the term ordinary physostegia the rather common P. virginiana, though he could be referring to any of the four species mentioned in the books. I assume, though, that P. virginiana is meant, because it is the only one found in gardens and nurseries that I visit. The genus belongs to the labiates and is confined to the North American continent, according to Gray's Manual.

Although I have little affection for any form of physostegia that I have grown, I can see value in the plant for the gardener looking for summer color. And it is so variable in color that most folks could find something in it to suit their needs and tastes. I think the favorite of all the kinds that have been grown here is the pure white variety, alba. It was also the least vigorous, which might in turn make it less of a nuisance in gardens where the spreading habit of other

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1 3/4-oz. tin, 75c; 1 lb., \$4.50.

Hormo Root B—Use similar to the above.

2 oz., \$1.25; 1 lb., \$6.50.

Hormodin No. 3—For most hard-wooded and hard-to-root items.

1-oz. tin, \$1.00; 1/2 lb., \$4.50.

Hormo Root C—Use similar to the above.

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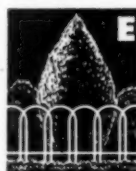
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kinds has been found objectionable. Perhaps because of the naturally weak condition of most albinos, we found it rather difficult to keep it going in our dry soil.

Second choice would, I think, fall on variety gigantea. But the deep rose, almost purple color is not especially pleasing. There is, however, a new form of gigantea, called Summer Glow, with rosy-crimson flowers that will probably find more favor with gardeners on color alone. Ordinarily, variety gigantea grows to about four feet in height, but I have seen it close to seven feet in the rich, double-trenched soil of a private garden that I often visit for inspiration. The height of the plant will suggest to experienced gardeners a wide field of usefulness.

Then, of course, we have the ordinary forms of *P. virginiana*, which is not virginica, as most of the lists have it. Few of the many kinds mentioned in the literature over the years are generally available in nurseries at present. They varied in color from lilac and purplish-red through various pinks, and in height from eighteen inches to four feet; so one would have a rather wide field from which to make a choice. It all makes one think that it would pay to look through old gardens in sections where physostegia has long been popular for some of the better kinds of yesterday.

As was mentioned before, I am not especially fond of the plant in any of its forms, but when I do see a planting of it, I want it to be a well done job. The only way I have ever seen that end attained was when the clumps were divided frequently, at least every third year, and the strongest divisions were given fresh soil to the depth of a foot or more. Also, it cannot be grown to a high degree of perfection without plenty of moisture.

Hardy Thoroughworts.

It has been in my mind for some time to give a short account of the hardy thoroughworts with the hope that the many hundreds of new entrants to the nursery trade since the war may be induced to give one or two of them a trial.

Eupatorium, a large genus of composites numbering more than 600 species, is nearly all American, though most of its kinds are confined to the tropics and, therefore, are of no use to the grower of hardy plants. The hardy ones are truly hardy, though, and give us interesting, useful and sometimes beautiful material for late summer and autumn color.

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The well known joe-pye weed, *E. purpureum*, needs no introduction to students of our native flora, but it deserves pushing among amateur gardeners, especially those in cities who know so little about what the country has to offer. It is essentially a plant of damp places and needs that kind of treatment in the garden to make a satisfactory showing. Given a rich moist soil, it may reach to six feet in height, producing large heads of pale purple to deep rose flowers from August onward.

A good companion for the first-named is *E. urticaefolium*, or *E. ageratoides*, the white snakeroot of eastern woodlands. It is at its best under the same conditions as *E. coelestinum* and during the same period abundantly produces its small white heads in quite large clusters, suggesting a white *ageratum* and thereby justifying the specific name the younger Linnaeus gave it.

Another thoroughwort of special merit as a fall-flowering subject is *E. aromaticum*. The specific name is not exactly descriptive, for it is not particularly aromatic. It is, nevertheless, a good plant for either landscape or cut flower purposes, and it blooms over the same long period, from August until frost. The flowers are

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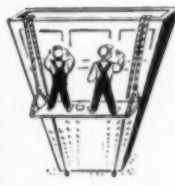
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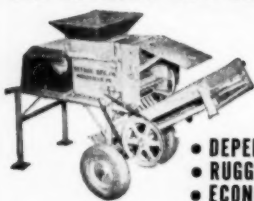
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white in large terminal heads. It is perfectly hardy, occurring as far north as Massachusetts, but its variety *melissoides*, from southern United States, cannot always stand the winter temperatures of northern Michigan. The variety is really the better of the two plants and should be used by preference where hardy, which would probably include all regions south of the Ohio and perhaps even north of that line. Both are to be numbered among the few good thoroughworts that give a satisfactory performance in dry soil.

All the eupatoriums are so easily and rapidly propagated from divisions there is seldom any need for other means of increase, though all are easily grown from cuttings and from fall-sown seeds if necessary.

A WHOLESALER ANSWERS.

[Continued from page 13.]

we should be making a grave mistake. It would not show up in a year or two, but it certainly would show up five, six or eight years from now.

For the small homes being built today, the consensus of the retail landscapers is, according to my information, that small stock is wanted by the homeowners for the simple reason that they are not willing to pay the money for the larger sizes. That is another reason why nursery stock is moving out in the smaller sizes at a rapid rate.

While labor costs have continued to rise, along with supplies and taxes, in the past two years, nursery stock is held at the same level. How long can this go on, even if these costs continue to stay where they are? To have material available for the retailer in larger sizes would mean additional cost, which I do not think the wholesaler can stand. I think competition will rule out any nursery that tries to grow this specimen stock.

There were many complaints as to bare-rooted stock's arriving in an uncovered truck, though usually it is the retail landscape nurseryman's own truck. I say that for this reason: We try most earnestly to keep our bare-rooted stock covered in the shipping shed. It takes a lot of burlap, and burlap costs money. But these trucks come down to our place and are loaded with bare-root stock. "Where is your canvas?" we ask. "The boss did not tell me to bring one." So we pull some of the burlap off our covered stock. We cover his truck, and that is the end of the burlap.

Another problem which seems to me to be a perplexing one is the ad-

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ditions over the telephone to orders when they are already filled. I think there is nothing more disconcerting to a wholesale nurseryman than to have an order ready for a day or two, with the day's work of digging other orders all planned out, and then receive a request for fifty more plants when the truck calls, or maybe one or two small items. It is all right to say, "Well, just forget it," but that is not the way to make friends. It is an expensive practice that is brought on by the retail nurserymen.

Now, as I said at the outset, if a retail nurseryman has all these complaints against the wholesaler from whom he buys, he ought to go to the fellow that does not occasion them, to the same extent, at least. If he stands for them, he has helped to encourage them. He has the privilege of coming down to the nursery and selecting the stock. In fact, I think the majority of nurseries allow the retailer to mark material "row run" and then he knows what he is getting. He has the opportunity to shop around to find out where the stock is best.

Some retail nurserymen, however, have lost sight of the fact that they want quality material. Instead, they have got around to the point where they are looking for a material at a price.

IN ADDITION to teaching classes in plant propagation several days a week at Michigan State College, East Lansing, F. L. (Steve) O'Rourke has also taken charge of the college's Hidden Lake Gardens, at Tipton.

BESIDES serving as secretary-treasurer of the Michigan Association of Nurserymen, Bernard Ward, owner of Ward's Flower Ranch, Lansing, Mich., is president of the Lansing Press Club. He was reelected last month.

MARRIED April 15 was Miss Jane Esterline, daughter of the Merrill B. Esterlines, Eagle Creek Nursery, New Augusta, Ind., to Robert A. Darmer, Mentone, Calif., in a lovely ceremony in the Sweeney chapel on the Butler University campus, Indianapolis.

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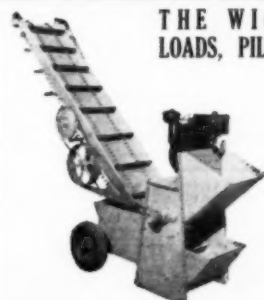


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Shrubs Suitable for Bank Planting

By George Graves

When it comes to broad planting such as that along roadsides, there seems to be no sharp division between ground covering or bank planting and underplanting. The problem thus is often not alone that of getting some kind of covering to grow across the face of a slope. There is often, in fact frequently, need to blend the roadside area, necessarily changed by construction, into the landscape from which it was cut. How the blending is done depends on the situation as it exists after the builders have finished and on the different natural conditions of open field, woodland or marsh which may be found.

In the case of a highway, a whole series of planting problems may present themselves. On a private property, ground covering or underplanting may be but one problem. This is true in some eastern housing developments where wooded areas are being subdivided into fairly large lots and the new roads and, very often, the private properties themselves are kept "wild," as the saying goes. In other words, the developers are remembering something which, too often, the highway builders have forgotten, that a road is a means of going from one place to another through the landscape. Roads which run through an oak woods are not laid wide open and planted in avenue fashion with some exotic deciduous or evergreen tree. Rather, the sense of driving through the original oak wood is retained. Even on private land, this idea of fitting a garden into the over-all landscape is too frequently forgotten.

One important approach to the problem of fitting any development into the natural landscape is the matter of transition from wild to cultivated or, in simple terms, planting not only with taller trees now and again or bringing near-by woods into the picture, but also with shrubs of one kind and another to obliterate artificial changes in grade and to take off the raw edges of construction.

Naturally, it is too much to expect planting alone to heal permanently all of the scars left behind by that modern behemoth, the bulldozer, driven by someone with too much of an eye on economy or with no feeling for natural slopes and land lines. It is time that more of these folks learned that water runs downhill, carrying soil and plants with it. They

should learn that the basis of any stable bank planting on disturbed land is equilibrium of the soil mass itself. Beyond that the extension of natural slopes, rather than abrupt sharp-angled changes, will be a more pleasant sight. Thus, the planting job, if it is going to be satisfactory, begins before any plants are brought to the site. Too long has the gardener been called in after all of the other trades have had their worst way and has been asked to mask situations which would have been happier for the plants and plantings if the landscape planter had been consulted while the whole project was still on paper. That is asking too much, and, presumably, the landscape planter will have to continue to search for plants which will survive in sometimes extremely difficult situations, or after a secondary job of grading to make a foothold for the covering plants.

The choice of plant material for bank planting, as the present problem is known collectively, will depend to a great extent on the size of the plant-

ing and to some extent on the slope of the land. Land that falls away from the road or point of observation so that the planting will be looked down upon can be tall indeed. In fact, on extended slopes of this kind, trees of considerable stature can become ground-covering material, especially toward the bottom of the slope. On slopes which rise to be looked at from the bottom, the plants are usually shrubs, but if they are running up to merge into taller trees, they can be shrubs of considerable size. As the areas of slope diminish in size and decrease to the lesser limits of small home garden proportions, the scale of size of plant material decreases to that of rock garden plant proportions, as has previously been stated.

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In large bank plantings, the transition from cultivated area to wild woods is usually worked out with plants which require little in the way of maintenance. There will seldom be need for pruning, and, once established, the plants are tough enough to deal with any competing plants which volunteer. Often these volunteer plants are themselves attractive, as, for instance, a wild grape. Poison ivy is attractive, too, but it is on the taboo list in frequented places for obvious reasons. As for the seedlings of large trees which may lodge and grow among bank-planting plants, even some of them may be left to develop over the years, provided they are of the same species which are present in considerable stand in the area just beyond the artificial planting. This is especially true on semi-wild roadside areas where the original woods may just as well be permitted to resume their former position.

As far as growth requirements are concerned, there are numerous items of nursery merchandise which can be made to do on sloping areas with no other consideration than height, spread and habit as they may relate to the particular site or job. Unfortunately for the transition-to-the-wild idea, many of these garden plants, such as forsythia, lilac and other introduced plants, have too much of the gardenesque about their appearance to do the job adequately, no matter how well they may grow. This means that the plant material now in mind is of the sort which is little in general demand and which cannot be expected to be an important part of a general nursery list. The nearer the planting is to town, where the whole landscape is a planted one, the more possibilities there are for planting standard nursery items, but where the planting site backs up to the wild, the wild more nearly sets the style.

To give a few examples of plant materials which can appear more at home in half-wild bank plants, it might be well to remember that shade is often a factor. Thus a tall plant such as the mountain maple, *Acer spicatum*, with red fruits in summer and orange and scarlet autumn leaf coloration, can appear at home. Then there is the mapleleaf viburnum, *V. acerifolium*, which can serve as a wood edge plant, as can several of the shrubby dogwoods, or even *Cornus florida*. The witch hazels have a place here, too.

For a plant of less lustiness for poor dry soil where the shade sometimes strikes, there is the New Jersey tea, *Ceanothus americanus*. It is

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a deeply rooted plant which grows to be not more than three feet high and bears its clusters of whitish flowers in late summer. Still another plant of about the same stature which is also at home in dry, partly shaded soil is *Hypericum kalmianum*. Its small yellow flowers appear about the middle of July and often eventuate in seeds which cause a planting to thicken or to spread. Shade-tolerant, too, but better suited to reasonably moist soil is the yellowroot, *Xanthorhiza simplicissima*. This sucker-spreading plant soon takes over an area to form a solid ground cover which offers plenty of resistance to erosion.

Slightly more on the exotic side is *Buddleia alternifolia*, which grows to a height of several feet in gravel, in the shade. It will not bloom well nor at all in such a location, but it will grow, as will most of the honeysuckles and privets. The snowberries, which have a fair shade resistance and real bank-covering properties, should be mentioned in this same category.

For poor, quickly drained soil out in the sun, one of the best bank plants is the sweet fern, *Comptonia peregrina*. This loosely branched suckering plant, with aromatic deciduous leaves, seldom reaches more than five feet as it spreads out on roadside cuts. It is not too easy a plant to transplant. The dwarf bush honeysuckle, *Diervilla lonicera*, of somewhat herbaceous appearance, can thrive in open, dry, rocky roadside areas. Grosser in every respect is the southern bush honeysuckle, *D. sessilifolia*.

The golden St. John's-wort, *Hypericum frondosum*, is a neatly rounded, 4-foot bush which can grow well on dry, sunny soils and thicken up its stand by selfsowing.

The beach plum, *Prunus maritima*, rates high as a binder of poor soils and because of its ability to reach its roots down a long way for water. So planted in masses, it is a highly colorful plant in bloom in May. It is just as well to plant the beach plum in rather poor soil, because where fertility is high, too much growth may be induced. In setting it, the roots are all that matter. In fact, heavy-topped plants usually die in the process of moving.

The sumacs also enter the picture as suitable poor soil plants capable of regeneration from the roots. One of the lesser-statured ones, the fragrant sumac, *Rhus aromatica*, seldom grows more than three feet tall, but tumbles attractively over rock-strewn surfaces. Its yellow blooms appear before the unfolding of the aromatic

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leaves. These leaves turn a color in autumn.

For real thicket-forming shrubs there are such plants as the beaked filbert, *Corylus cornuta*, and the glossy buckthorn, *Rhamnus frangula*. Both of these plants grow fairly tall in well watered soil.

The same is true of a number of shrubs which can be used in really wet places encountered in the course of semiwild planting. An obvious plant is the American elderberry, *Sambucus canadensis*. The wet locations in which it thrives are not suited to all elderberries, particularly the scarlet one, *Sambucus pubens*, which grows in rocky woods. Another highly attractive plant for wet locations where it can be looked down upon after the leaves fall is *Ilex verticillata*. In time, it can become no meager plant, often reaching a height of fifteen feet. Along with it goes *Clethra alnifolia*, a source of excellent honey where it abounds. Beekeepers near large areas of low ground would be much better advised to foster this sweet pepperbush than to encourage the spread of the far-too-aggressive purple loosestrife, as is now being done. The red-osier dogwood, *Cornus stolonifera*, also has a place in wet soil plantings, as does leatherwood, *Dirca palustris*, with its show of pale yellow blooms in the drab landscape of mid-April.

ASSOCIATED with My Florist, Inc., for nineteen years, Philip J. Weber is now building his own retail garden and indoor plant business, the Hartsdale Garden Mart, Inc., at 365 Central avenue, Hartsdale, N. Y.

RETIRED January 31 as director of the Florida agricultural experiment station, at Gainesville, Dr. Harold Mowry has accepted the position of representative of the office of foreign agricultural relations at Karachi, Pakistan.



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As new varieties are added, the nursery will print new pages for the catalog, and the previous ones will not be duplicated in mailings, except upon request. When further information is gathered on a variety already in the catalog, the information will be printed on a sticker to be pasted in the catalog.

Each year the nursery will also issue a mimeographed list of varieties and sizes of trees available and also describe varieties which are not included in the permanent catalog for lack of illustrations.

Prices are included on a separate page in the catalog; when prices change, a new page will be sent.

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Mount Arbor Nurseries, Shenandoah, Ia.—Fruit trees and small fruits, deciduous trees and shrubs, roses, evergreens, perennials and spring bulbs; 64 pages, 6x9 inches.

Berryhill Nursery Co., Springfield, O.—Evergreens, deciduous shade and ornamental trees and shrubs, roses and supplies; 16 pages, 4 1/4 x 8 1/4 inches.

RETAIL PRICE LISTS.

Oak Park Nurseries, East Patchogue, N. Y.—Shade and ornamental trees, evergreens, flowering shrubs, vines, ground covers, roses, fruit trees and small fruits; 56 pages, 4x9 inches.

A MEMBER of the Pennsylvania Christmas Tree Growers' Association, Charles Bunton, Mainland, Pa., is growing his own seedlings to enter the nursery business.

RECENTLY opened by Oscar R. Ames, the Huntington Garden Mart, Inc., 767 New York avenue, Huntington, N. Y., includes a landscape service in addition to selling plants and garden supplies.

A BRANCH of his firm at Abilene, Tex., was opened January 21 at Hamlin, according to owner and manager, E. A. Allison, who calls the new branch the Allison Nursery & Tree Service.

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